32B217

LET	ALTERATION	DATE	BY
A	REVISED & ADDED REQMT'S. TO AGREE WITH FIRST AIRPLANE	10/17/39	HARTER
B	REMOVED PILOT HOLES & ADDED -10. THE DEGREES OF ANGLES WERE INSIDE, NOW OUTSIDE.	10/27/39	HARTER
C	CHANGED DIMENSIONS OF ANGLES BACK TO ORIGINAL INSIDE DIM. NO CHANGE OF PART.	11/1/39	HARTER
D	COMPLETED LB 30 REQTS	1/21/42	GOLDHAMMER
E	ADDED -11 TO DIM & DWG		
	ADDED - 8 REQ ON B24D & E	2/19/42	TUTTLE
F	-11 - 111° WAS 118° IN REQ PER AIR PLANE BLK. REMOVED -10 B24D & E 32B1041 ALSO -8 B24D & E 32B2020, -6 - B24D & E 32B1041 (4 REQ) WAS (2 REQ) ADDED -7 B24 D & E 32B2020 - 4 REQ W/CHG NEG 7-16-42		FUNK
G	ADDED -12, N.H. 32B2092(1) FOR B24 D & E. NO W/CHG		
H	INTRO/AIRPLANE BLK, ADDED -11 [illegible] NO W/CHG	1-4-43	FUNK
	IN REQ/PLANE CHGD -11 ON 32B4020 & 32B3020 FROM (4) TO (3) REQ. NO W/CHG	5-31-43	FUNK

MCR 272-B1

-12	B 24 H	32B1453	1
-12	B 24 D	32B1453	1

ASSY DASH NO	MODEL	NEXT ASSY	
-8	LB-30	32B008	6
-10	LB-30	32B2051	1
-7		32B2051	19
-6		32B2051	19
-10		32B2042	18
-5		32B2042	19
-10		32B1041	2
-6		32B1041	1
-7		32B0051	19
-6		32B0051	19
-10		32B0042	18
-8	LB-30	32B0042	19
-10	B24C	32B1041	1
-6	B24C	32B1041	2
-9	B24C	32B1020	4
-7	B24C	32B1020	4
-6	B24C	32B1020	4
-10	B24A-B24C B24E-B24	32B0042	18
-8	B24A-B24C B24E-B24	32B0042	19
-10	B-24A(B24	32B[illegible]	20
-8	B-24A B24 - B24	32B0020	6
-7		32B0020	5
-6		32B0020	4
-10	[illegible]	32B0041	42
-10	X-B24	32B0068	20
-7	[illegible]	32B0063	2
-6		32B0063	2
-9		32B0070	10
-8		32B0070	14
-7		32B0070	30
-6		32B0070	27
-10		32B0060	7
-7		32B0060	26
-6		32B0060	22
-7	B24 - B24	32B0051	18
-6	B24 X B24A	32B0051	19

SHIP = 1028 ON

SHIP = 994 ON

SHIPS 1 - 101

SHIPS 1 - 95

EDC 41140

E.O.A 50003

MCR 272-1

SEE RELEASES.

E.O.A 50430

MCR 146-7

ASSY DASH NO	MODEL	NEXT ASSY	
-11	B24E	32B3020	3
-9	B24E	32B3020	4
-7			
-6	LB30 B24D&E	32B5020	4
-10		32B2042	16
-5		32B2042	19
-10		32B2051	1
-7		32B2051	19
-6	B24D&E	32B2051	19
-11	B24E	32B2020	4
-11	B24D	32B1020	3

MCR 1467

ASSY DASH NO	MODEL	NEXT ASSY	
-7	B24D&E	32B2020	4
-6	B24D&E	32B1041	4
-9	B-24D	32B1020	4
-7	B-24D	32B1020	4
-6	B-24D	32B1020	4
-6	28-5AMC	28B5590	2
-6	28-5AMN	28B5590	2
-6	PBY-5A	28B5590	2

#435 ON

= 1-82

SHIPS #1-29 ON B24A

In MCR 146-7 NEX 146-7 # ON (1)

32B217-12	K1365	x 7/8
32B217-11	K1365	x 7/8
-10		
-9		
-8		
-7		
32B217-6	K1365	x 1/8

AL ALEXTR	57-152-5-A	
AL ALEXTR	57-152-5-A	
AL AL EXTR	57-152-5-A	

REQUIREMENTS PER AIRPLANE

REPLACES .023 THICK CRES

REPLACED BY

SCALE 12" = 1'-0

STAMP PART NUMBER WHERE SHOWN

PARTS LIST PER ASSY

REQ -0	REQ -2	REQ -3	REQ -4	REQ -5

PER SPEC - 99-10026A CAC 2F-32-001

WATER LOC. MUH GF UNOWEN FWF

7/29/39 7/25/39 7-8-39

NAVY

HEAT TREA FINISH

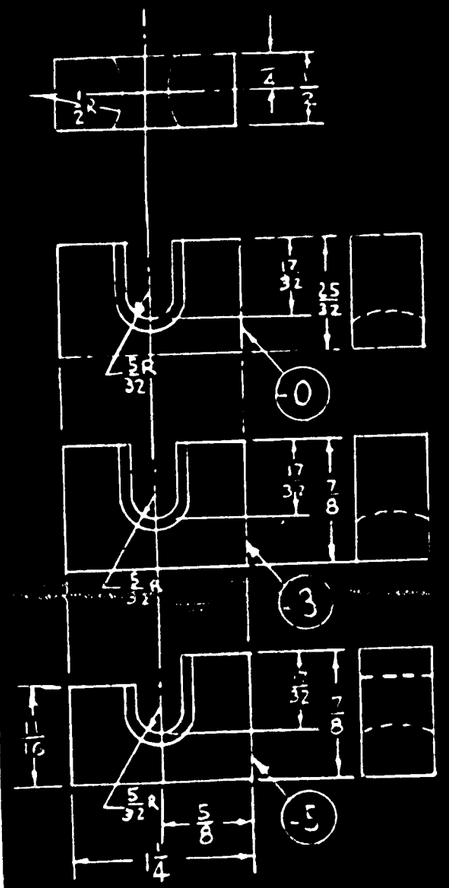
NAME STRINGER CLIP - FUSELAGE

DWG B 32B217

CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF

4/9/41

R



	-5	PBY5B	28C5500	12
	-4	PBY5B	28C5500	36
	-3	PBY5B	28C5500	15
CONT 31876 #91 ON	-5	PBY5	28C5086	11
	-4	PBY5	28C5086	36
	-3	PBY5	28C5086	16
	-5	28-5AMN	28C5750	
	-4	28-5AMN	28C5750	54
	-3	28-5AMN	28C5750	6
CONT 88476 #53 & ON	-5	PBY5A	28C5564	6
	-4	PBY5A	28C5564	54
	-3	PBY5A	28C5564	6
CONT 88476 #1 THRU 52	-2	PBY5A	28C5564	54
	-0	PBY5A	28C5564	11
CONT 31876 #1 THRU 90	2	PBY5	28C5086	36
	-0	PBY5	28C5086	16
	-2	28-5AMC	28C5750	54
	-0	28-5AMC	28C5750	11
CONT 70496 77713	-2	PBY5A	28C5700	54
	-0	PBY5A	28C5700	11
	-2	28-5MN	28C5500	33
	-0	28-5MN	28C5500	11
	-2	28-5MA,MC,ME	28C5500	39
	-0	28-5MA,MC,ME	28C5500	11
	-2	USCG	28C5001	22
	-0	USCG	28C5001	22
CONT 70496	-2	PBY5	28C5000	39
	-0	PBY5	28C5000	11
	-2	XPBY5A	28C4025	22
		PBY-4	28C2000	
		PBY-3	28C2000	
		PBY-2	28B1238	2
		PBY-1	28B1238	2
		PBY-2	28C2000	
		PBY-1	28C1000	
		XP3Y1	28C001	
		P2Y-2	22C300	4
		P2Y-3	22C1000	4

ASSY DASH NO	MODEL	NEXT ASSY	REQ

REQUIREMENTS PER AIRPLANE

22C185 OF 10-29-31

SCALE 12 - 0

BLANK PART NUMBER WHERE SHOWN

N ADDED -3, -4, -5 BEFORE FROM ... PURCHASE TO DRAWING

PURCHASE TO DRAWING

PART NO			MATERIAL					
				WT	REQ	WT	REQ	WT
-5	1/2 x 1 1/2	3/8	LAM PHENOL	2PSF3 GRADE				
-4	1/2 x 1 1/2	1/8						
-3	1/2 x 1 1/2	3/8						
-2	1/2 x 1 1/2	1/8						
-0	1/2 x 1 1/2	3/8	AM PHENOL	2PSF3G FORM2				

PARTS LIST PER ASSY -0 -2 -3 -4 -5

NAME GUIDE BLOCK-CONTROL-CABLE

CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF

B 22C185

R

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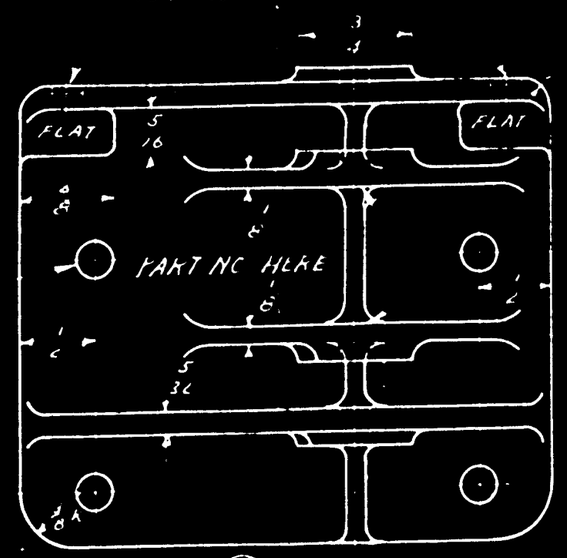
H	ADDED MACHINE NOTE	8-1-40	BALLOU	
	7/8 DIMENSION WAS 13/16			
J	1/4 (.250) 4 HOLES. SPOT-FACE 1/2 DIA. 3 HOLES" WAS			
	"1/4 DRILL 4 HOLES" W.T. CHG NEG	9-10-43	PADMUN	
K	REM. FROM PLAN "ALUM. ALLOY CASTING"			
	SPEC "M186" H.T. 42,000 PSI IN 4 REQ'L			
	BY NOTED" ADDED MATERIAL NOTE NO. WT. CHG	9 22 43	JARSEN	

4 (.250) 4 HOLES
SPOTFACE 1/2 DIA. 3 HOLES
(J)

"10 (.193) DRILL 2 HOLES



(G)

K.H. OPPOSITE HAND 22C1031-1
DETAIL PARTS PER ASSEMBLY

PBY-1	28C003	1	1
PBY-1	28C003	1	1
PBY-2	28C003	1	
PBY-3	28C003	1	
PBY-4	28C003	1	
28-55	28C003	1 EA.	

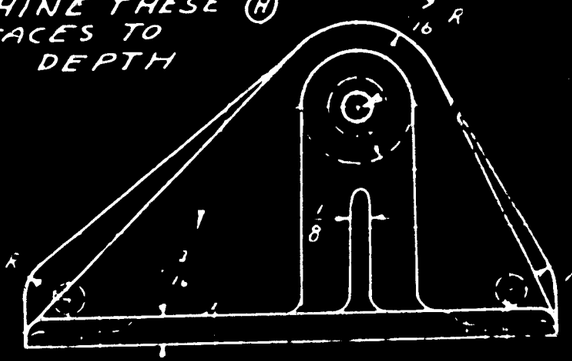
C'T'R BORE 3/64 DIA 1/8 DEEP BOTH SIDES

NOTE (K)
1-MATERIAL MAY BE:
(A) AL ALLOY CASTING, 220T4, SPEC AN QQ A-392, TS 42,000 PS.I.,

(B) AL ALLOY CASTING, 195T6, SPEC. A.N.-QQ A 390 CL II, 32,000 PS.I.

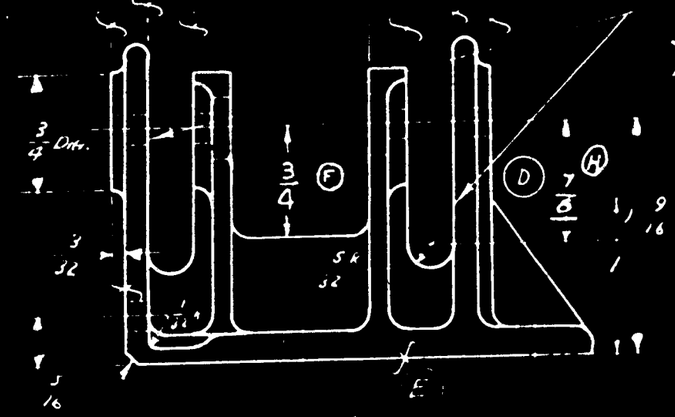
GP GREEN PRIME

MACHINE THESE (H) SURFACES TO THIS DEPTH



" (.185) DRILL
THRU

28-55	28C003	1 EA.	
PBY-5A	28C003	1	
PBY-5A	28C003	1	
PBY-5A	28C003	1	
PBY-5	28C003	1	
PBY-4	28C003	1	
PBY-3	28C003	1	
PBY-2	28C003	1	
PBY-1	28C003	1	
PBY-1	28C003	1	



FILE APPROX 1/16 X 45° CHAMFER

3	ADDED 2 9/32 +0 -1/32 DIMEN.	6-8-38	WEIR	CO. 7253
F	3/4 DIMEN. WAS 5/16	1-11-37	W&R	CO. 4485
	NO. 32 FINISH MARKS	1-2-36	FREEL	
	PICTURE CHGD TO AGREE W/ CO/G 1-11-36		JAFFE	
C	MATERIAL WAS ALUM CO. 10-21-36		JAFFE	
	SPEC 22-T4; H.T. WAS NOE 58A			
	1 BY-1 ADDED, FIN WAS 7-P ENGR			
B	TRACED & BROUGHT UP TO DATE	3-15-35	F.D.T.	
	CHANGED	DATE	CH BY	

ALL FILLETS 1/8 RADIUS EXCEPT AS NOTED

LEFT HAND SHOWN
RIGHT HAND OPPOSITE

SCALE 16"=1'-0"
FINISH NOTED
MATERIAL NOTED
HEAT TREAT NOTED
FINISH Z-3GP

DETAIL PARTS PER ASSEMBLY:
DRAFTSMAN [illegible]
STRENGTH & WT. EXAM H.P.
CHECKED
APPR'D & REL'S'D

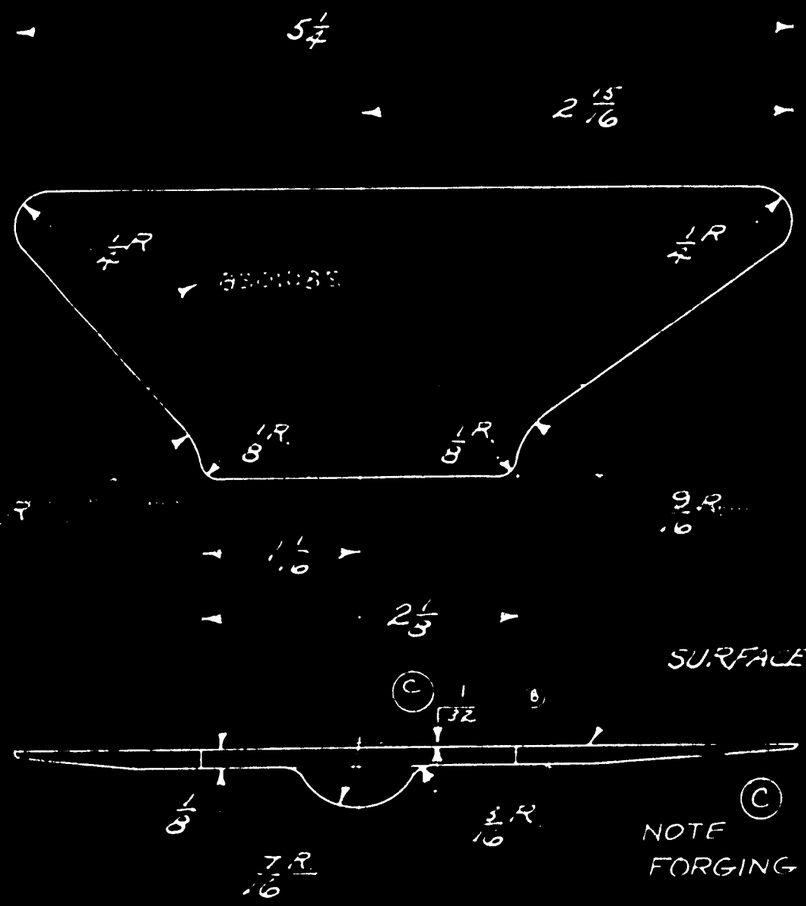
BEARING - CONTROLS - YOKE
CONSOLIDATED AIRCRAFT CORPN. DR'W'G. No 22C1031

22C1031

SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
A	TRACED	12-17-36	LDM
B	CHANGED ±1/64 TO ±1/32 ON FACE OF DRAWING	4/21/41	BoLTz
C	REMOVED 1/32 R (4 PLCS); EDGE RADII 1/16 WAS 1/32; 2.00-1/32 DIM. & NOTE	1-4-42	CHAIN
	"FORGING TOLERANCE ±1/32".		
	MOVED PARTING LINE. REM'D. ±1/64 DIM.		

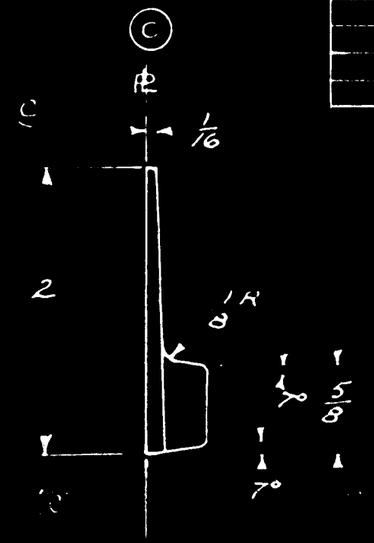
E.O 3506 A



PART NO. ON OPPOSITE SIDE

SURFACE TO BE FLAT

NOTE
FORGING TOLERANCE +1/32 -1/64



NOTE:-
ALL EDGE RADII 1/16 R.

-R	28-5AMC	28C1027	1	
-L	28-5AMC	28C1027	1	
-R	28-5MN	28C1027	1	
-L	28-5MN	28C1027	1	
-R	28-5ME	28C1027	1	
-L	28-5ME	28C1027	1	
-R	28-5MC	28C1027	1	
-L	28-5MC	28C1027	1	
-R	28-5MA	28C1027	1	
-L	28-5MA	28C1027	1	
-R	PBY-5B	28C1027	1	
-L	PBY-5B	28C1027	1	
-R	PBY-5	28C1027	1	
-L	PBY-5	28C1027	1	

-R	PBY5A	28C1027	1	
-L	PBY5A	28C1027	1	
-1	PBY-4	28C1027-1		
	PBY-4	28C1027		
-1	PBY-3	28C1027-1		
	PBY-3	28C1027		
-1	PBY-2	23C1027-1		
	PBY-2	28C1027		
-1	PBY-1	28C1027-1		
	PBY-1	28C1027		

REPLACES

REPLACED BY

NOTED

APPROVED 1-9:36 DATE

.08

SCALE 1/2 = 1'-0"

LH REQ	RH REQ	PART NO.	LH REQ	RH REQ
		PARTS LIST PER ASSY.		

MODEL	NEXT ASSY	REQ	STD PARTS
REQUIREMENTS PER AIRPLANE		MAT	

MATERIAL	SPEC	HEAT TREAT	FINISH	DRAFT	CHECK	EXAM	ENG
NAVY 1/2 FORGING AL. ALLOY	N-277	65000 #/□"	NONE	WEIR 12-17-36			R

CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.

STAMP PART NO. WHERE SHOWN

2933 Stan Miller L

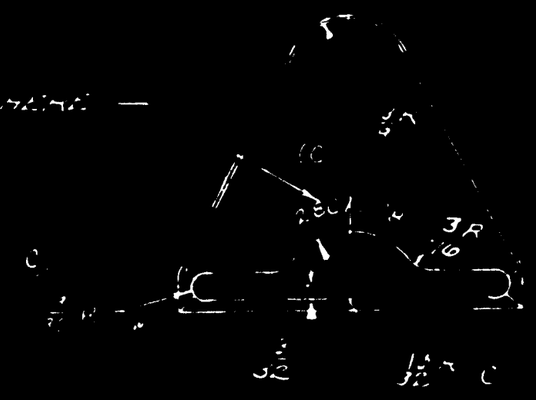
OPP HAND 28C1026-1-RH

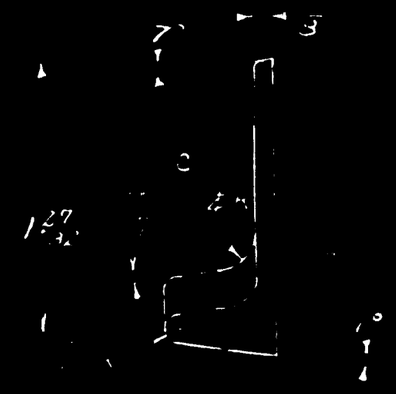
NAME BEARING (FORGING) ELEVATOR CONTROL - BELL CRANK

SIZE B

DWG 28C1026

PART NO. MAKE —

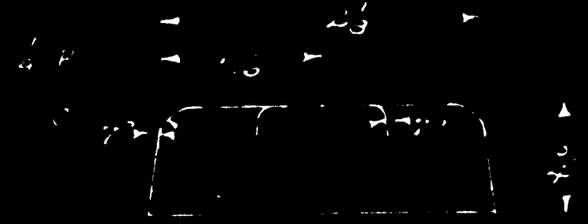




FORGING NOT AFF B

TRACED

CHGD MATL FROM 14ST TO ASIST;
SPEC FROM M-271 TO 46A1GR 4;
HT FROM 65000#/L" 100-110,000
#/L" W1 CHG HEA[illegible]



.06

NOTE

ALL MISC RADII

PBY 5B	28C1029 2
PBY 5A CRAMM	28C1029 2EA
28 SMEAMN	28C1029 2EA
28SMAMN	28C1029 2EA
PBY 5A	28C1029 2
PBY 5	28C1029 2
PBY-4	28C1029
PBY-3	28C1029
PBY-2	28C1029
PBY-1	28C1029

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CONSOLIDATED AIRCRAFT CORPORATION
CONTRACT OF THIS DRAWING

FORGING ALLOY STEEL 4GA1GR4 99,000# NONE

CAP ASSY, ENG. CONTROL BELL CRANK BEARING

B 28C1029

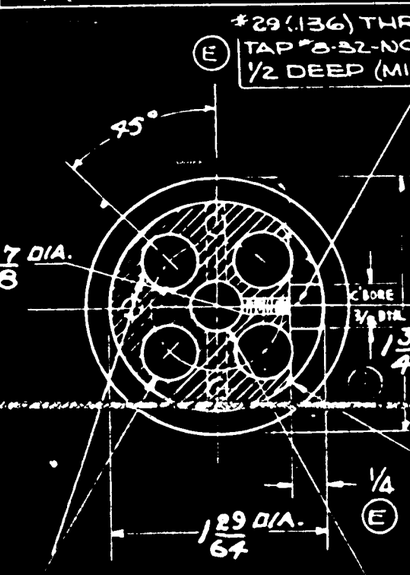
	DATE	BY
B	TRACED	1-11-37 R.A.
C	ADDED 2-$\frac{3}{32}$ DIA HOLES PER DRUM.	1-21-38 WEIR
D	ADDED -4. HOLES 9/32 DEEP WHERE 3/8 DEEP. "32 HOLES WERE 3/32	6-3-40 [illegible]
E	REMOVED $\frac{5}{8}$(.125) DRILL THRU	

Ⓒ DRILL #32 (.116) THRU.-2 HOLES

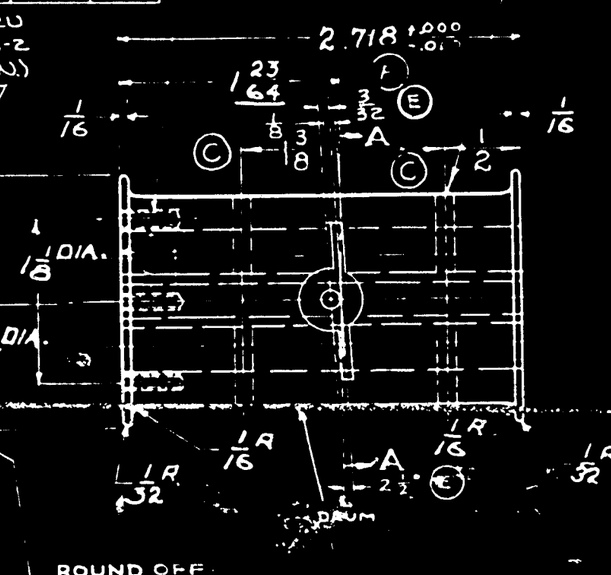
DRILL $\frac{1}{2}$ DEEP
-TAP #6-32 NC-2
4 HOLES 9/32 DEEP
IN -3 SPARES ONLY

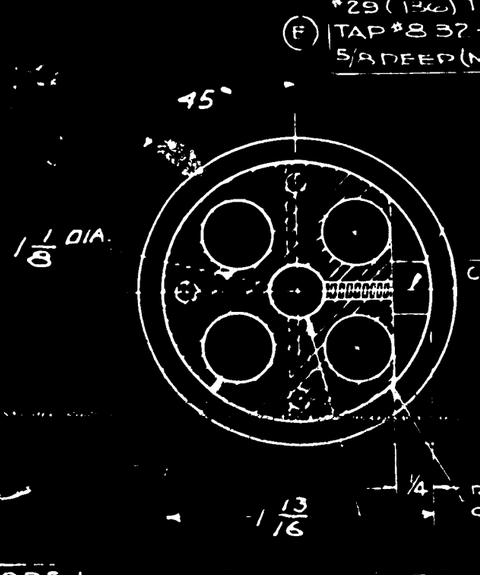
E 6-32 TAP HOLES IN -2, -3, -4.
CONT ADDED NOTE," DRILL #29 (.136) THRU. TAP 8-32-NC2, $\frac{5}{8}$ DEEP (MIN.). ADDED $\frac{1}{4}$ DIM, $\frac{1}{8}$ C'BORE DIM, $\frac{3}{32}$ DIM. ± 2° ± 2½°
DIMS. W.T. CHG. NEG: 1-14-42 [illegible]
DIMS. 1/16 WERE 3/32. WEIGHT 7-11-42 WHIMS

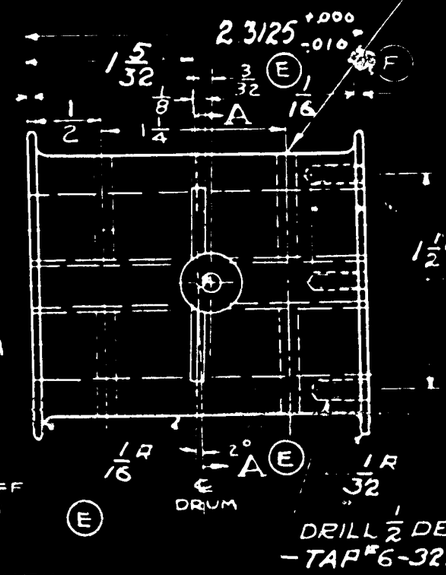
E OASSES



SECTION A-A







SECTION A-A

-4		
-3	.34	
-2	.43	
PT. NO.	CALC WT.	ACTUAL

FINISH CODE
ANODIC TREATMENT
PRIMER
ZINIZED PRIMER
ALUM PLATE

NOTED

SEE RELEASE SHEET

-4	PBY-5	28C2030
-2,-3	PBY-4	28C1070
-2,-3	PBY-3	28C1070
-2,-3	PBY-2	28C1070
-2,-3	PBY-1	28C1070
-3	XPBY-1	28C1070
-2	XPBY-1	28C1070

O.H.	MODEL	NEXT ASSY	REQ.
-4	28-5MN,AMN,AMC	28C2030	EACH
-3	28-5MN,AMN,AMC	28C1070	EACH
-2	28-5MN,AMN,AMC	28C1070	EACH
-4	28-5MA,SMC,SME	28C2030	EACH
-3	28-5MA,SMC,SME	28C1070	EACH
-2	28-5MA,SMC,SME	28C1070	EACH
-4	PBY-5A,SB	28C2030	EACH
-3	PBY-5,5A,SB	28C1070	EACH
-2	PBY-5,5A,SB	28C1070	EACH

REPLA

.010

CONSOLIDATED AIRCRAFT CORPORATION

A'A-L T BAR 46A5 CONDT NONE ZP-2AKV

WEIR J.H. GREEN
12-24-35 3-2-36

DRUMS-ELEVATOR & RUDDER FLAP CONTROL-CABLE — 28C1067

(G) (-2 -3) 1/8" × 7 × 19 CARBON TINNED STEEL CABLE SPEC. ANRR-C-43.

C	TRACED	2 16 38 WEIR
D	G6320 B4 WAS G6320 4 SEE CC 7131	3 15 38 SRW
E	CABLE SPEC 49C11 WAS C 70	7 20 38 WHITAKER
F	[illegible]	[illegible]
G	REPLACED ENTIRE MTRL NOTE FOR -2 & -3 WITH NOTE "1/8" 7×19 SPEC ANRR-C-43. CHANGED PRE- VIOUS NOTE "AS LISTED" TO DELETED NOTE "WITH" AND ADDED "AS PER SPEC SRISC NEG NT CH 3	4 11 42 IALL

105 5/16 (8'-10 5/16)

(F) NAF310621 -2 -B4 D

(F) NAF310621 -S210-4RH

AN155-215

(F) NAF310621 -S210-4LH -3

(F) NAF310621 -B4 D

74 15/16 (6'-2 15/16)

1 3/8 REF

30 (2'-6")

NOTES:

1. PRESTRETCH CABLE TO 1200# WHICH IS 60% OF RATED STRENGTH
2. CABLES TO BE COATED WITH PARALKATONE SPEC. RM61 TYPE B AS PER SPEC. SRISC.
4. DIMENSIONS GIVEN ARE WITH 3 THREADS EXPOSED AT TURN BUCKLES.
5. SWAGE TERMINALS AS PER SPEC T 46 B AS APPLICABLE

2 16 38

45 DIA

12" = 1'-0"

PBY-5A	[illegible]	1
PBY-5	[illegible]	
PBY-4	28C2000	
PBY-3	28C2000	
PBY-2	28C2000	ANISS 215 1

NAF310621-B4	2
NAF310621-S210-4LH	1
NAF310621-S210-4RH	1
-3	1
-2	1

[redacted]

NOTED NOTED NONE SEE NOTE #2 1 13 37 WEIR HWH CN R

[illegible] AIRCRAFT CORP.

CABLE ASSEMBLY- S.B.A.E CONTROL- ELEVATOR.

28C2114

CONTOUR GIVEN TO THIS POINT

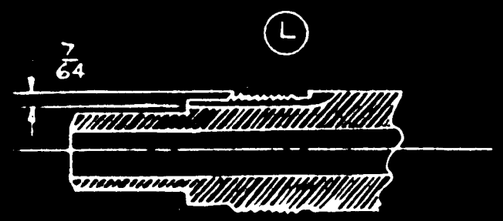
SECTION A-A
SCALE 12" = 1'-0"

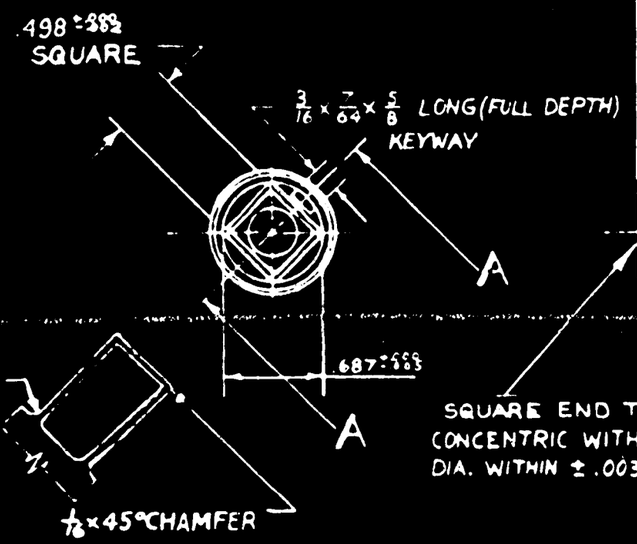
NOTE: MATERIAL

RUBBING STRIPS - FULL
HORIZONTAL

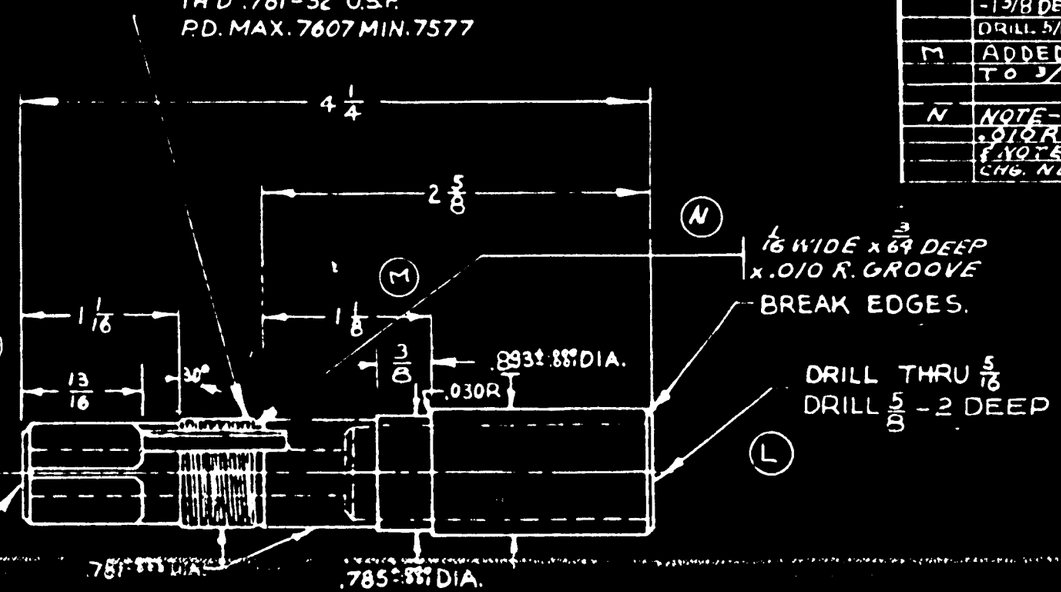
28H1043

LET	ALTERATION	DATE	BY
K	REDRAWN & REVISED	10-17-42	ARNH
	ADD MAT'L NOTE. NO WT. CHG	10-17-42	ARNH
L	CHG'D INSIDE DRILLING REMOVED		
	NOTE DRILL 1/2 - 3 1/4 DEEP & DRILL 23/32		
	- 1 3/8 DEEP. DRILL 5/8 - 2 DEEP WAS		
	DRILL 5/8 - 2 3/8 DEEP. NEG WT CHG	5-15-43	MOORE
M	ADDED 1/32 R. FULL RADIUS		
	TO 3/64 GROOVE.		
	WT. CHG. NEG.	5-21-43	WHITE
N	NOTE - 1" 7/16 WIDE x 3/64 DEEP x		
	.010 R. GROOVE" REPLACES 3/64 DIM.		
	& NOTE "1/32 FULL RADIUS" WT.		
	CHG. NEG.	5-10-43	GRAHAM





SQUARE END TO BE CONCENTRIC WITH .781 DIA. WITHIN ± .003



NOTE: ALL OUTSIDE DIM. TO BE HELD AFTER PLATING.

NOTE: BEFORE MACHINING THIS PART ESTABL. ASSEM. PROCEDURE TO BE FOLLOWED ACCORDING TO NOTE ON DRAWING 28L144 & 29L126.

MATERIAL NOTE

C.M. - ST'L ROUND BAR (1ST CHOICE); AN-QQ-S-752

~~MAX-51 #3/4 ST'L (SECOND CHOICE)~~

ASSY DASH NO	MODEL	NEXT ASSY.	REQ
	PBY-5	28L144	2
	PB2Y-3	29L126	2
	PBY-4	28L144	2
	PBY-5A	28L144	2
	PBY-5B	28L144	2
	PB2Y-2	29L126	2
	FLAGSHIP	29L126	2
	SEE RELEA	SE SHEET	
	PBY-2	28L144	2
	PBY-1	28L144	2
	XPBY-1	28L144	2

REQUIREMENTS PER AIRPLANE

ASSY DASH NO	MODEL	NEXT ASSY	REQ
	28-5MA	28L141	2
	28-5MC	28L141	2
	28-5ME	28L141	2
	28-5MN	28L141	2
	28-5AMC	28L141	2
	28-5AMN	28L144	2

REPLACED 28L073 — 4-10-43 — .269 CALC WT

REPLACED BY — ACT WT

LIGHT ON DIA UNLESS OTHERWISE SPECIFIED ± .010

SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART NO	STOCK	MATERIAL	SPEC.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.
	ID x 4 3/8	NOTED	NOTED										
PARTS LIST PER ASSY				-0		-2		-3		-4		-5	

AS		CORTE	J.S.	H.P.	PATTON	L.G.W.	L.
NAVY 150 000 ♥ 150 M	CADMIUM PLATE	4-10-43	12-13-36				
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROV	ENG

NAME JOURNAL - FLOAT RETR. SCREW - INBOARD

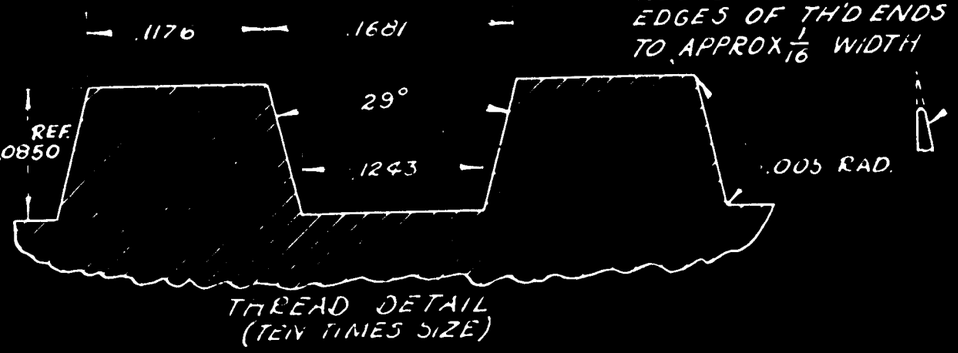
OPP HAND

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF

DWG B 28L073

SIZE

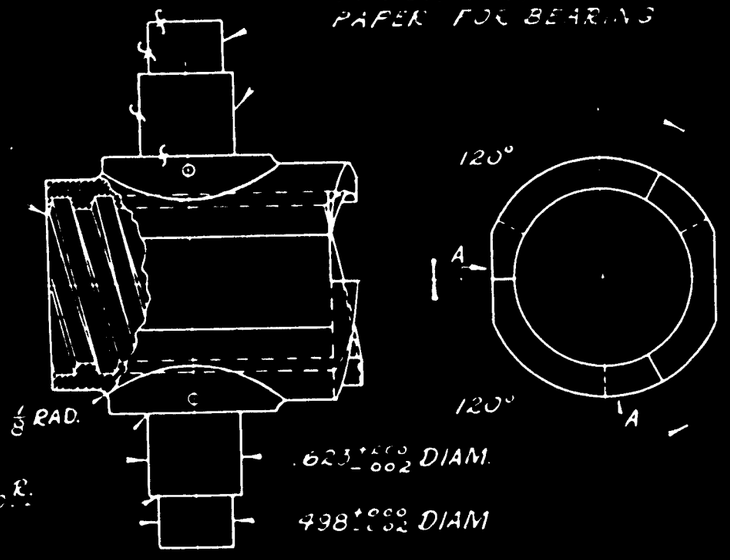
R



THREAD DETAIL
(TEN TIMES SIZE)

ROUND OFF SHARP EDGES OF TH'D ENDS TO APPROX $\frac{1}{16}$ WIDTH

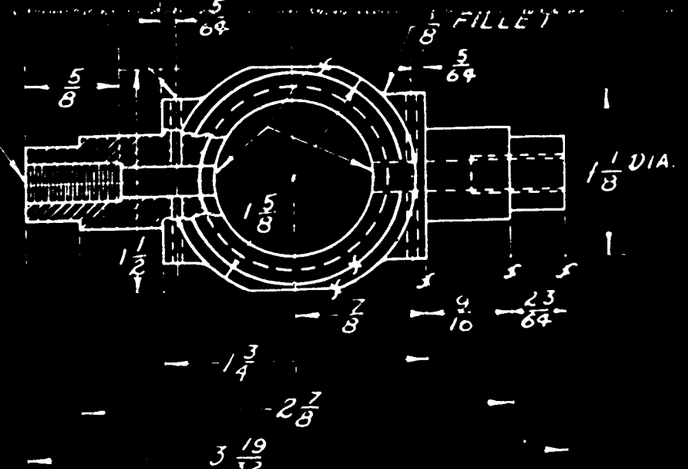
FINISH WITH EMERY PAPER FOR BEARINGS

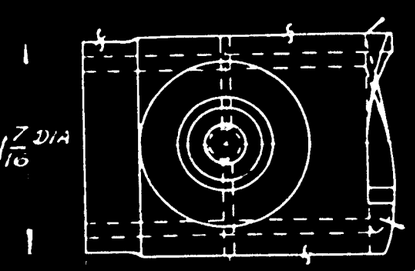


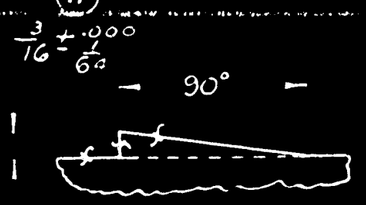
DRILL #3 (.213) EACH SIDE THRU, BEFORE CUTTING ACME THREAD

TAP $\frac{1}{4}$-28NF3 - #48 (.076) DRILL THRU 2 HOLES

NO BURRS TO REMAIN AFTER CUTTING ACME THREAD







VIEW A-A
SHOWING JAWS (L.H)

-R	PBY-5B	28L5148	1
-L	PBY-5B	28L5148	1
-R	28-5	28L078	1
-L	28-5	28L078	1
-R	PBY-5	28L5148	1
-L	PBY-5	28L5148	1
-R	PBY-5A	28L5148	1
-L	PBY-5A	28L5148	1
OH	MODEL	NEXT ASSY	REQ

REPLACES

REPLACED BY

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED .010

APPROVED 12-17-35 DATE

.685 A.P. WT

SCALE

AC...

NAVY 20 CASTING MATERIAL

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

G	TRACED UP TO DATE		
H	DIM. MAS. .1875 ± .003		
J	ADDED INSPECTION NOTE		
K	IN REQS. AIR CHANGE NEXT ASSY FROM 28L078 TO 28L5148. NO WT CHG FOR PBY-5 & 5A	7-13-43 STEWART	

28L119

28° ACME LEFT HAND SHOWN (R.H. OPP)
$3\frac{1}{2}$ THREADS PER INCH - DOUBLE LEAD
OUTSIDE (ROOT) DIAM. 1.220 +.002 -.000
INSIDE DIAM. REAM 1.050 +.000 -.002

NOTE: ACME THREADS ON THIS PART MUST BE CUT TO GIVE A FREE RUNNING FIT ON PART NUMBER 28L120
RIGHT HAND PART TO HAVE SAME FIT ON 28L120-1
RH PART TO HAVE R.H. ACME THREAD & R.H. CLUTCH JAWS.
CLASS I INSPECTION (1)

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

LH REQ	RH REQ	PART NO	NEXT ASSY REQ	PARTS
		-1 PBY-3	28L078-1	
		PBY-3	28L078	
		-1 PBY-2	28L078-1	
		PBY-2	28L078	
		-1 PB1-1	28L078-1	
		PB1-1	28L078	
		-1 XPBY-1	28L078-1	
		XPBY-1	28L078	

REQUIREMENTS PER AIRCRAFT NAT

PARTS LIST PER ASSY

TMH

COMM 105,000 .50 IN C EXCEPT THDS 8-7-35

MATERIAL HEAT TREAT FINISH DRAFT CHECK ENGR ENG

OPP HAND 28L119-1

DWG B SIZE 28L119

TRUNNION - FLOAT RETRACTING MECHANISM

SUPPLIES & EQUIPMENT CLASSIFICATION

SET	ALTERATION	DATE	BY
H	TRACED UP TO DATE	2 8 37	REVISION
J	REVISED PRESTRETCHING NOTE AS SHOWN		
	REMOVED NOTE TO DOPE IN LINSEED OIL	"	"
	PBY-5, ECO 437 THEWSTER		
K	CHANGED TOLERANCE FROM 1/64 TO 1/8	4-15-41	MALLER
L	SURFACE, MAT'L, ETC - 4 WAS "CORR. RESISTANT ST'L, SPEC. COMM" NO NOTE	7-20 43	Pellett

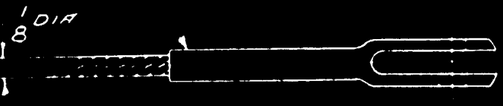
AN161-2RS

AC995-72-10

AN155-21S

26341-4L

Q6331-4



1291

ASSEMBLE WITH 3 THREADS EXPOSED ATENDS OF TURNBUCKLE BARREL

NOTE:
1. PRE-STRETCH CABLE TO 60% OF RATED STRENGTH (1260#) (L)
2. CABLE TO BE COATED WITH 50% WHITE LEAD & 50% TALLOW SOLUTION

3 CADMIUM PLATE ALL STL PARTS
4 SWAGE ALL ENDS - SPEC 146

(L) -4 CABLE 7/19 WIRE, TINNED CARBON ST'L, NON FLEXIBLE - PRE-FORMED SPEC AN RR-C-43.

PBY-5A&B	28L1040	2EA				
PBY-5	28L1040	2	Q6331-4	1		
PBY-3-4	28L1040		Q6341-4L	1		
PBY-2	28L1040		AC995-72-10	1	28L10394	1
PBY-1	28L1040		AN155-21S	1		
XP3Y-1	28L1040		AN161-2RS	1		

LH REQ	RH REQ	PART NO	MAT	NOMENCLATURE OR DESCRIPTION	REQUIRED FOR ASSY

PARTS LIST PER ASSY

REPLACES

REPLACED BY

LIMIT ON DIMENSIONS OTHERWISE SPECIFIED ± 1/8

APPROVED 9 36 DATE

30

12 0

S Andrews MILLER

NOTED

1.0 ED

35 2-8-37

CHECK ITEM

CONSOLIDATED AIRCRAFT CORP BUFFALO

CABLE - FLOAT - LOCK. MECH. - ASS'Y.

SPP HAND

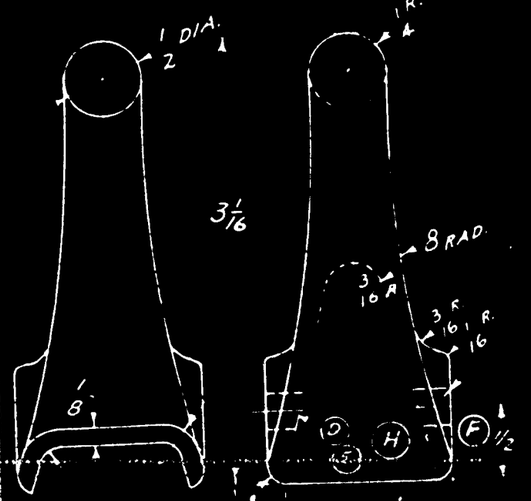
SIZE B 28L1039

SCALE FULL

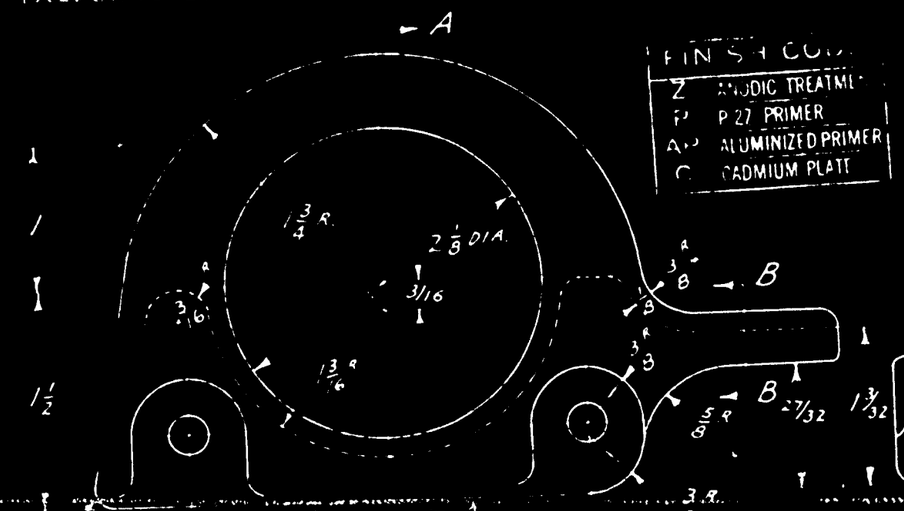
WELD BEFORE MACHINING

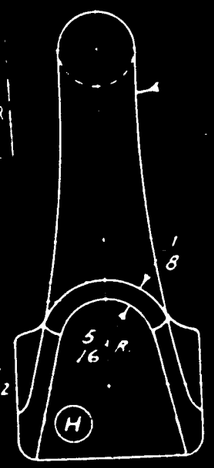
(D) DRILL #F (.257) THRU FLANGES - 2 HOLES
(C'BORE - 9/16 DIA. - DEPTH 3/32 - ONE FLANGE - FOR PBY-1, PBY-2, PBY-3 ONLY. FOR FUTURE PROCUREMENT USE PBY-4 TYPE.)
JIG LOCATE FROM INSIDE OF CSTG.
(REFER TO 28L2036.)

(F) E.O. 468 (8 AC) PBY-5



SECT A-A.





SECT. B-B

FINISH CODE
Z ANODIC TREATMENT
P P 27 PRIMER
A ALUMINIZED PRIMER
C CADMIUM PLATE

LET	ALTERATION	DATE	BY
B	TRACED	7-29-37	Ashton
C	NOTE ADDED, 8 WELD AT C-C WAS AL. AROUND	1-24-38	Bowers
D	CHANGED HOLES FROM TAPPED TO DRILLED	2-17-38	Klipsch
E	ADDED CUTOUT IN TOP OF LUG	2-17-38	Klipsch
F	REMOVED C'BORE FOR PBY-4	2-17-38	Klipsch
G	ADDED CAD PLATE TO FINISH	2-20-40	THURBER
H	CANCELED "LET E"	6-16-41	BANTLE

SUPPLIES & EQUIPMENT CLASSIFICATION

(-2) MATERIAL: CORR. RESIST. STEEL CASTING SPEC. 46327 GRADE 1. 70,000 # P.S.I.
FINISH - SAND BLAST OUTER SURFACE FOR WELDING ON -3.

(-3) STELLITE OR STUDITE WELDING ROD. SPEC - COMM.

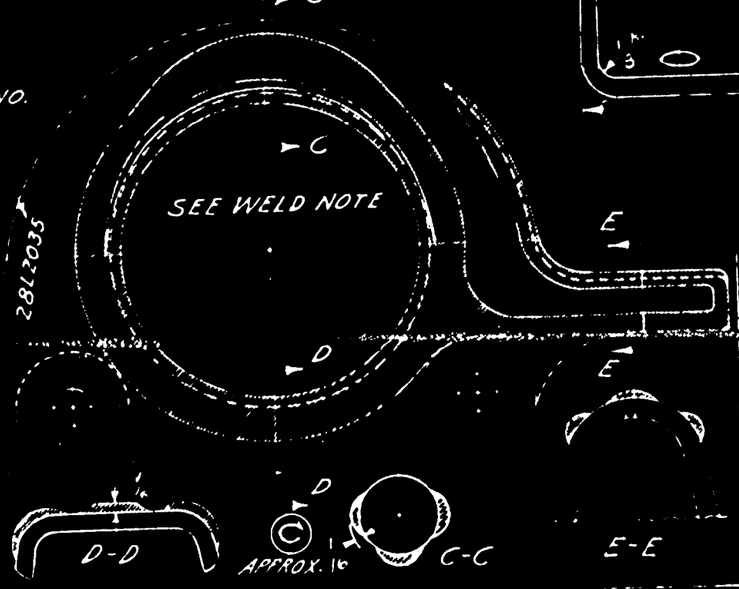
WELD. NOTE: WELD -3, TO -2 CSTG. COVER A SURFACE NOT LESS THAN SHOWN BY SHADED AREA. (1/16 THICK APPR. ALL WELDING TO BE NEAT AND SMOOTH.

FINAL FINISH NOTE: SAND BLAST OVER-ALL, AFTER WELDING. ALL SURFACES (IN & OUT)

(G) CAP. PLATE - 2P - 2 BLACK LACQUER.

(C) NOTE:- WELDING MUST BE DONE BEFORE MACHINING

CAST. NO.



O.H.	MODEL	NEAT ASSY	REQ.	PART NO.
	PBY 5 & 5A	28L2001	2 EA	
	PBY-4	28L2001-R		
	PBY-4	28L2001		
	PBY-3	28L2001-R		
	PBY-3	28L2001		
	PBY-2	28L2001-R		
	PBY-2	28L2001		
	PBY-1	28L010-1		-3 1
	PBY-1	28L010		28L2035-2 1
	PBY-5B	28L2001	2	

PARTS LIST PER ASSY.

REPLACES 28L2035 of 11-9-36
REPLACED BY
OTHERWISE SPECIFIED
APPROVED 7-29-37 DATE
.70
SCALE 12" = 1'-0"

NAVY NOTED MATERIAL NOTED SPEC. NOTED HEAT TREAT NOTED FINISH

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

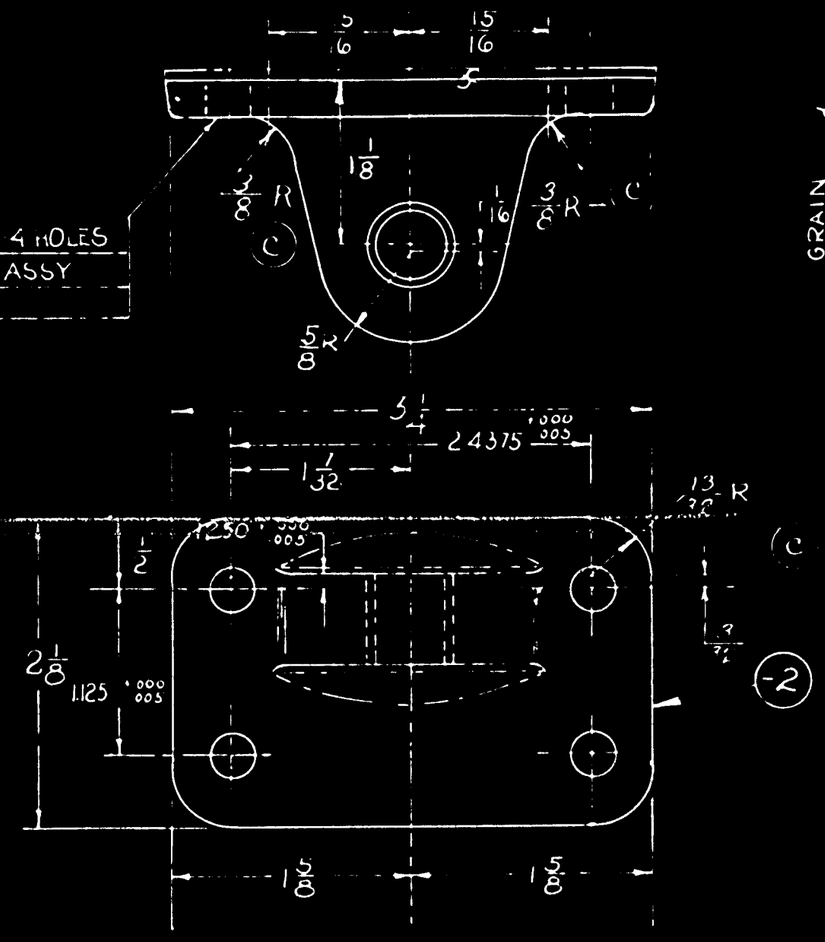
12-15-36 Hunter M.M.M.
PHILLIPS 7-30-37

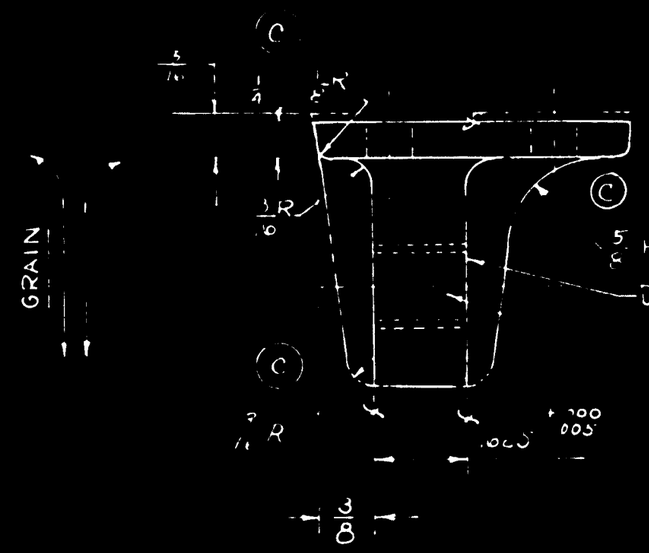
DRAFT | CHECK | EXAM. | ENG.

NAME LUG-FLOAT-REMOVABLE REAR HANDLING

OPP HAND

DWG. SIZE B 28L2035





LET	REVISION	DATE	BY
A	TRACED FROM BREWSTER DRWG NO B-30023 AFTER CHG D		
B	ADDED MACHINE TOLERANCE PER WAS	3/3/42	
C	ADDED MACHINE TOLERANCE, PER WAS [illegible] 3/8 R & 1/2 R; 13/32 R 1/4 R; ADDED FINISH MARKS & LINE 5/8 R & 3/16 R, FINISH 2-P-GP WAS, 2-P-AL TO B/M ADDED PBY-5A&B [illegible] CHAIN & 28 SAMC 2AMN REQ'D (WITHDRAWN) ADDED [illegible] FORGING ANGLES 7°		

5615
5625 REAM ON ASSEMBLY

INSERT BUSHING Q618-14-20 WITH WET PRIMER AFTER FINISH

GP	GREEN PRIME
FINISH CO...	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINUM PRIMER
C	CADMIUM PLATE

28 SAMN 2EL2000
28 SAMC 2EL2000
PBY-5B 2EL2000 B
PBY-5A-5 2EL2000 B
PBY-3-4 28L2000-K
PBY-3-4 28L2000
PBY-2 28L2000-K
PBY-2 28L2030

THIS DRWG TRACED FROM BREWSTER DRWG NO B30023

Q618-14-20	1	
28L2043-2	1	

REQ REQ REQ REQ REQ

REQUIREMENTS PER AIRPLANE — PARTS LIST PER ASSY

PHANTOM LINES INDICATE EXTREMES OF FORGING

f INDICATES MACHINE FINISH

TOLERANCES —
FORGING ± 1/32
MACH. ± .010
(B) (C) DRAFT ANGLES 7°

(A) NOTED

12" = 1'-0"

REPLACES

LCW 11-15-37
ADM. APP. DATE

MATERIAL	SPEC	HEAT TREAT	FIN	DRAFT	CHECK	ENG
NAT'L ALLOY FORGING	M-77B	NONE	Z-P GP	3/3/31 withdrawn A.M. 11-5-37		

CONSOLIDATED AIRCRAFT CORP

FITTING-LOWER LEG FLOAT BRACE

DETAIL OR ASSY

A B 28L2043

(-7)

(-8)

A			

NOTE

ALL

FORG NOTES
ALL DRAFT ANGLES
FORG N
SHOT
ANNEAL BY VENDOR

MACH NOTES
MACH
BREAK ALL
HEAT

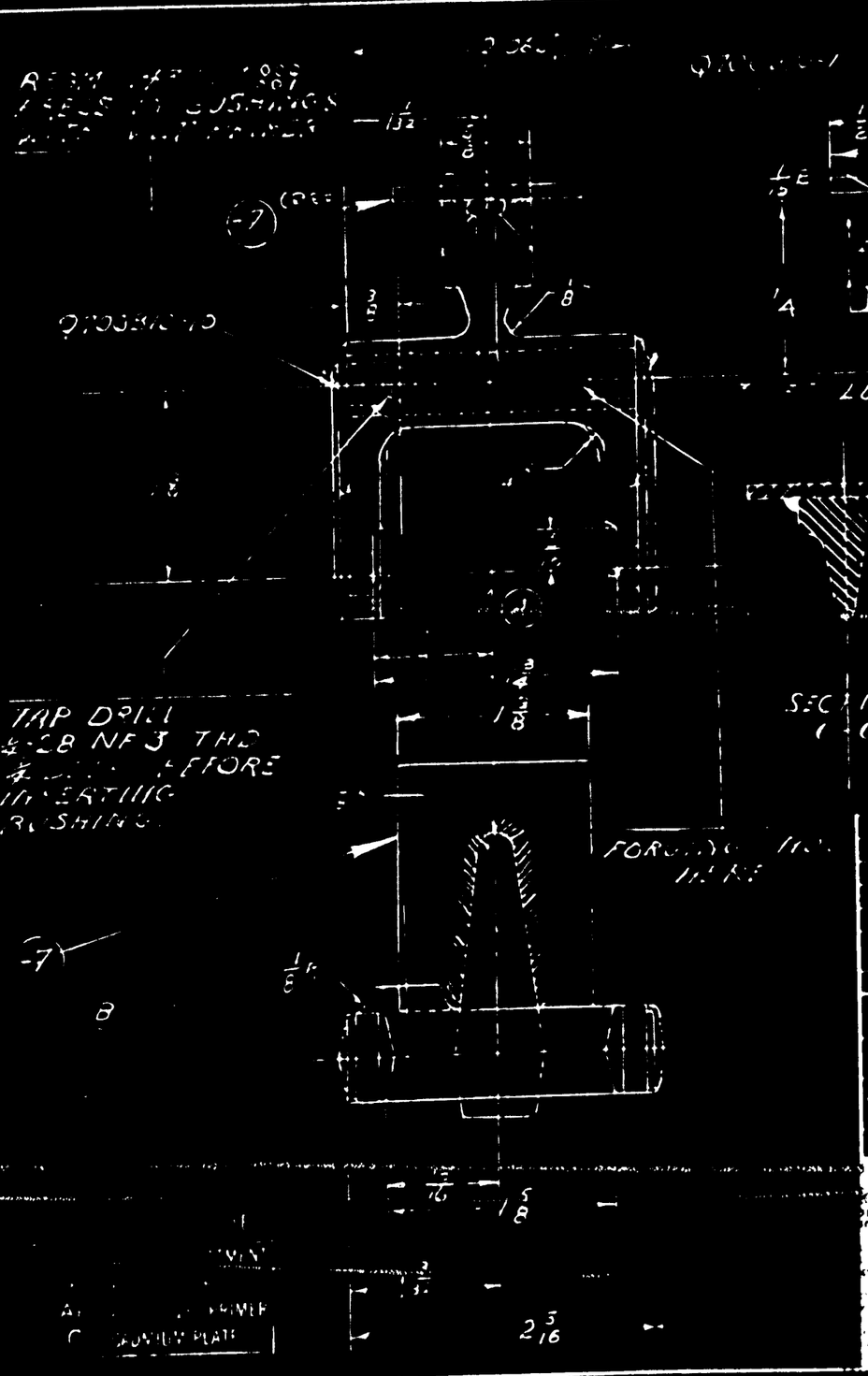
REQUIREMENTS PER A-HP-ANE

STAMP PART NUMBER WHERE SHOWN

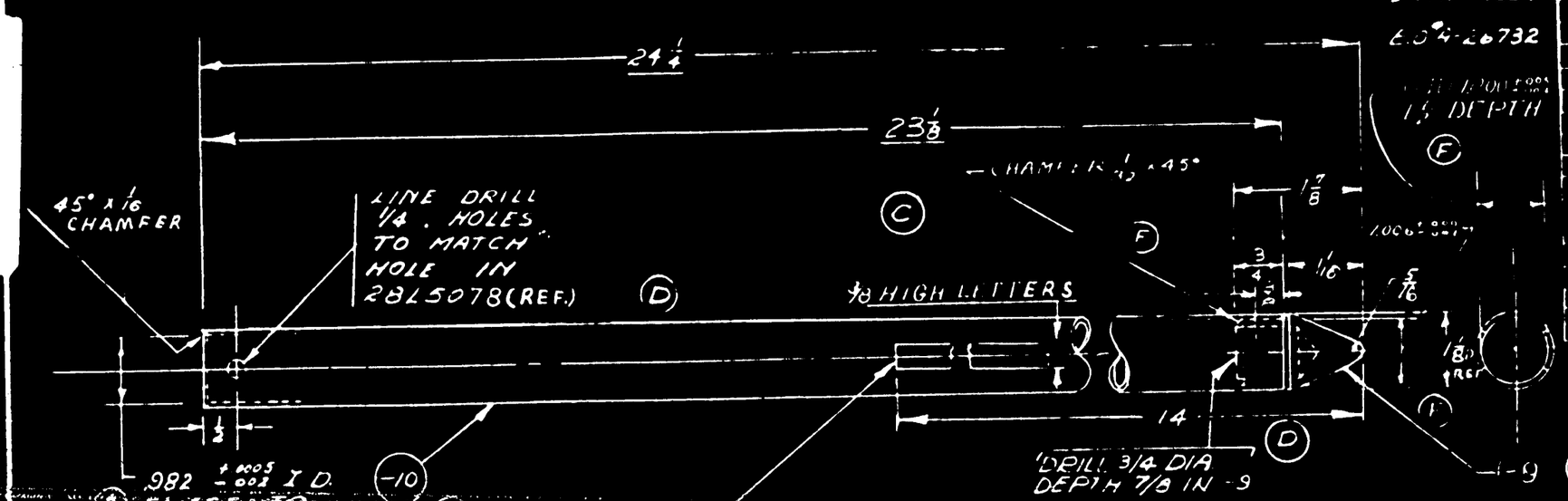
NAME

B

ALTERATION	DATE
A	
B	
C	



INCORP BU. CHG #00 PBY-5A



LET	ALTERATION	DATE	BY
A	AS 1000 3 REQ'S.	11-5-41	
B	AUTH: Y-REQ'S & NOTE	11-14-41	A.A.
	ADDED NOTE 8 - CHANGED MMS & BIV. NOTE, WGT. CHG. NEG.	3-25-42	BLANK
L	REMOVED DWG. I BAND E DIMS.	3-25-42	YOUNG
	2, 3, 2 - ADDED DIM. 14. NOMINAL		
E	ADDED NOTE "ALTERNATE----		
	COND N" WT CHG NEG	10-8-42	BAUGALE
F	REPLACED -6 & -8 BY -10 & -9 RESP.		
	REMOVED RIVET AS470 AD 72		

(F) NOTES-
1. HEAT TREAT -9 & -10 -150,000 #/□"

(E) *2 ALTERNATE MATERIALS FOR -10
CHROME-MOLY WELDED TUBING, AN-T-3, TYPE I, COND. N.
CHROME-MOLY SEAMLESS TUBING, AN-WW-T-850, COND. N.

(B)

ASSY DASH NO	MODEL	NEXT ASSY	REQ
-2	28-5AMN	2815096	1
-0	PBY-5A	2815096	1
-0	28-5 AMC	2815096	1

REQUIREMENTS PER AIRPLANE

REPLACES — 1.15# CALC WT

REPLACED BY — ACT WT

UNLESS OTHERWISE SPECIFIED DECIMALS ± 1/32 — SCALE 6" / 1"

STOCK PART NUMBER WHERE USED

PART NO	STOCK	MATERIAL	SPEC	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
* -10	1/8 X .049	24 1/4 C.R.S.T.	ANWWT850	1	1						
-9	1/8 D X 2 — POD	C.R.S.T.	AYQQS684	1	1						

PARTS LIST PER ASSY

				-0	-2	-3	-4	-5	

AC
NAVY: NOTED
HEAT TREAT

C-P-AP & PAINT AS NOTED
FINISH

10-3-10 T.G.P. KLEIN
HUIT ELDRED GREEN 1/9/43 11-C-41
DRAFT CHECK STRUCT MAT ENG

NAME HANDLE - N.L.G. - EMERG LOWERING - LEVER

OPP HAND

DWG B 2815094

SIZE

CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF

FILE

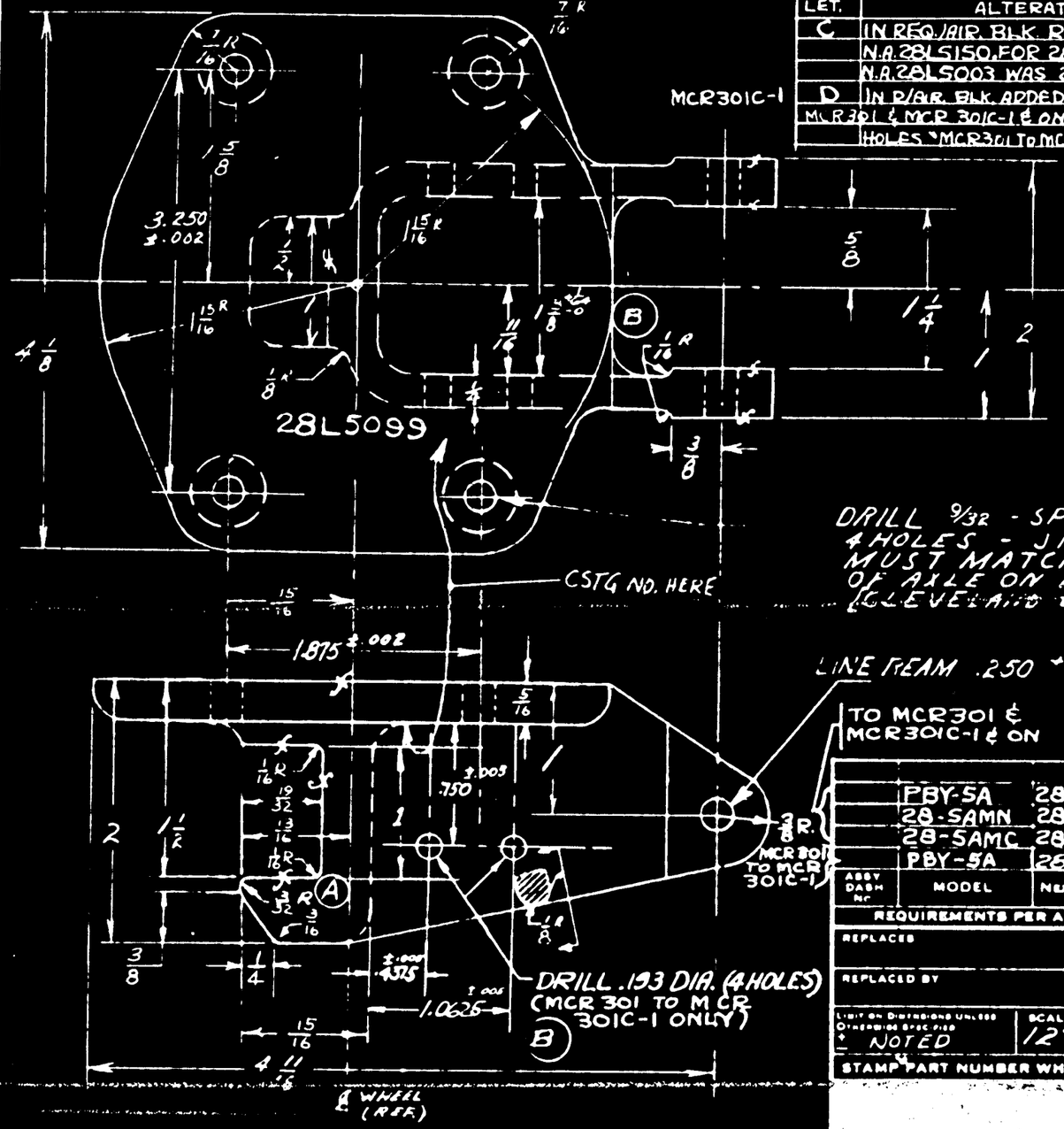
COPY NO.

LET.	ALTERATION	DATE	BY
C	IN REQ/AIR. BLK. REMOVED "OA-10"		
	N.A. 28L5150 FOR 28-5AMC & 28-5AMN		
	N.A. 28L5003 WAS 28L5150. NO WT. CHG.	9/13/43	WHEELER
D	IN P/AIR. BLK. ADDED PBY-5A N.A. 28L5003 TO		
	MCR 301 & MCR 301C-1 & ON. LIMITED .193 DIA.		
	HOLES "MCR301 TO MCR301C-1 ONLY" NO WT CHG	9-15-43	WHEELER

MCR 301 →

LET	ALTERATION	DATE	BY
A	ADDED 3/32 R & 1/16 R	5-[illegible]-41	HURT
B	ADDED .193 DIA. 4 HOLES (LOC. DIMS. .750 +.005 -.000, .4375 +.005 -.000 & 1.0625 +.005 -.000 IN REQ/AIRP. BLK. NA. FOR PBY-5A (28-5AMC (28L5150) WAS (28L5003) ADDED REQ. FOR 28-5AMN, ADDED WT. CHG. NEG.	7-21-43	BENNER
B SCRN.	TO DIM. 1 & TOL. NO.		

MCR301C-1



DRILL 9/32 - SPOT FACE 9/16 DIAM. (OPP. ℄ SIDE) 4 HOLES - JIG LOCATE - HOLES MUST MATCH HOLES IN HUB OF AXLE ON MAIN OLEO STRUT [CLEVELAND DWG. 8103 REF.]

LINE REAM .250 +.0005 -.001

TO MCR301 & MCR301C-1 & ON

FINISH CODE	
Z	ANODIC TREATMENT
P	P 27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

CASTING NOTE
1. DIMENS. TOLER. ± 1/32
2. ALL FILLET & CORNER RADII ± EXCEPT AS NOTED
3. MAT'L TO CONFORM TO 4951 NAVY SPEC. EXCEPT MAT'L TO BE C MOLY STEEL OF ULT. TENS. STRENGTH OF 100,000 #/IN² MIN.
4. CAST'G SANDBLASTED BY VENDOR.

MACH. & FINISH NOTES:
1. MACH. TOLER ± .010
2. FINISH C-P
3. BREAK ALL SHARP EDGES.

ASSY DASH NO	MODEL	NEXT ASSY	REQ
	PBY-5A	28L5003	2
	28-5AMN	28L5003	2
	28-5AMC	28L5003	2
	PBY-5A	28L5150	2

REQUIREMENTS PER AIRPLANE

REPLACED	1.50 CALC WT.
REPLACED BY	ACT. WT.
LIMIT OR DIMENSIONS UNLESS OTHERWISE SPECIFIED: NOTED	SCALE 12" = 1'-0

STAMP PART NUMBER WHERE SHOWN

PART NO	STOCK	MATERIAL	SPEC	LH REQ. -0	RH REQ -2	LH REQ -3	RH REQ -4	LH REQ -5	RH REQ
	CAST'G	NOTED	NOTED	1					

PARTS LIST PER ASSY.

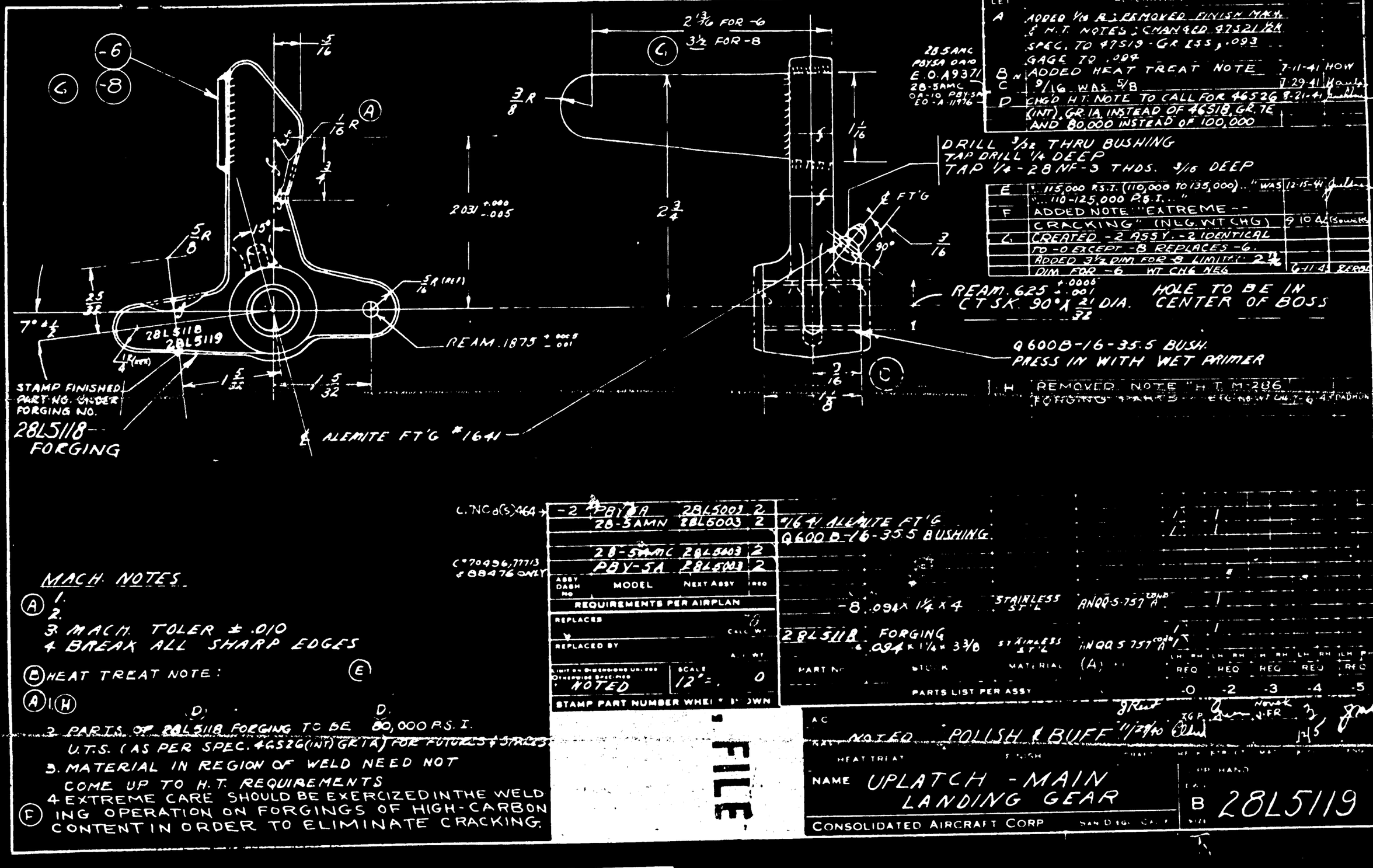
AC
NAVY NOTED | NOTED | 10/25/40 | Eldred | | | 12/5 |
HEAT TREAT | FINISH | DRAFT | MFG | QA | ENG

NAME FITTING - M.L.G. OLEO BUMPER

CONSOLIDATED AIRCRAFT CORP SAN DIEGO, CALIF.

DWG B 28L5099

FILE



20 SAMC
PBY5A OMO
E.O. A9371
20-5AMC
OA-10 PBY5A
EO-A-11976

LET	ALTERATION	DATE	BY
A	ADDED 1/16 R; REMOVED FINISH MARK & N.T. NOTES; CHANGED 47521 KH SPEC. TO 47519 - GR. [55], .093 GAGE TO .094		
B	ADDED HEAT TREAT NOTE	7-11-41	HOW
C	9/16 WAS 5/8	7-29-41	Hawks
D	CHGD H.T. NOTE TO CALL FOR 46526 (INT), GR. 1A, INSTEAD OF 46518, GR. 7E AND 80,000 INSTEAD OF 100,000	8-21-41	Smith
E	"115,000 P.S.I. (110,000 TO 135,000)..." WAS "... 110-125,000 P.S.I..."	12-15-41	Jenkins
F	ADDED NOTE "EXTREME -- CRACKING" (NLG. WT CHG)	9 10 42	Bowers
G	CREATED - 2 ASSY. - 2 IDENTICAL TO -0 EXCEPT -8 REPLACES -6. ADDED 3 1/2 DIM FOR -8 LIMITS: 2 3/4 DIM FOR -6 WT CHG NEG	6-11-43	REPRO
H	REMOVED NOTE "H.T.M. 286" FORGING PARTS ETC. NO WT CHG	1-6-44	PADMON

MACH. NOTES.

(A) 1.
2.
3. MACH. TOLER ± .010
4. BREAK ALL SHARP EDGES

(B) HEAT TREAT NOTE: (E)

(A) (H)

2 PARTS OF 28L5118 FORGING TO BE D. 80,000 P.S.I. U.T.S. (AS PER SPEC. 46526(INT) GR 1A) FOR FUTURE STOCK.

3. MATERIAL IN REGION OF WELD NEED NOT COME UP TO H.T. REQUIREMENTS
4. EXTREME CARE SHOULD BE EXERCIZED IN THE WELDING OPERATION ON FORGINGS OF HIGH-CARBON (F) CONTENT IN ORDER TO ELIMINATE CRACKING.

C. NC 8(S) 464 →
C "70496, 77713 & 88476 ONLY

ASSY DASH NO	MODEL	NEXT ASSY	REQD
-2	PBY5A	28L5003	2
	20-5AMN	28L5003	2
	28-5AMC	28L5003	2
	PBY-5A	28L5003	2

REQUIREMENTS PER AIRPLAN

REPLACES — CALL WT.

REPLACED BY — A.I. WT.

UNLESS OTHERWISE SPECIFIED: NOTED — SCALE 12" = 0

STAMP PART NUMBER WHEN DRAWN

FILE

PART NO.	STOCK	MATERIAL	PARTS LIST PER ASSY
1	-8 .094 x 1 1/4 x 4	STAINLESS STEEL	ANQQ-S-757 Cond A
2	28L5118 FORGING .094 x 1 1/4 x 3 3/8	STAINLESS STEEL	ANQQ-S-757 Cond A (A)

1/64" ALEMITE FT'G
Q600B-16-35.5 BUSHING.

LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ
-0		-2		-3		-4		-5

AC
NOTED POLISH & BUFF 11/29/40

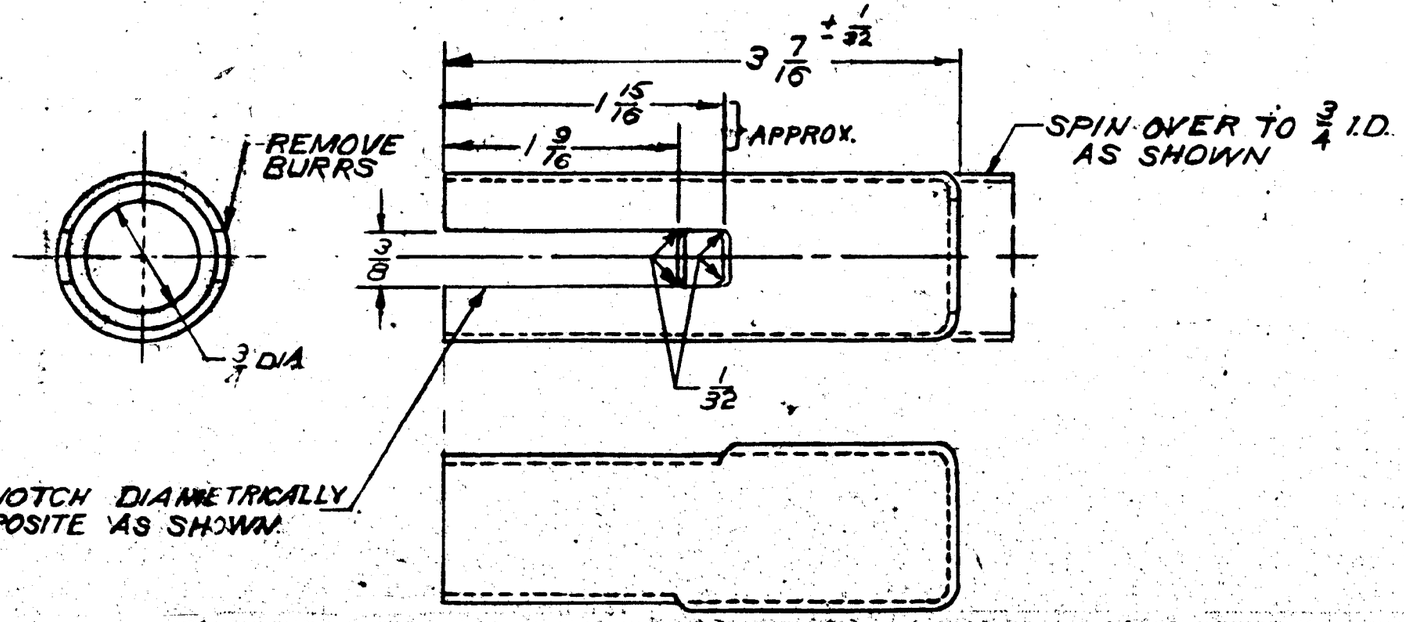
HEAT TREAT — FINISH

NAME UPLATCH - MAIN LANDING GEAR

CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF.

DR. HAND
CAT.
SIZE B
DWG. NO. 28L5119

LET	ALTERATION	DATE	BY
H	TRACED-NO WT. CHG.	9/29/41	DOLPH



FURN. BY GOODYEAR

ASSY. DASH NO.	MODEL	NEXT ASSY.	REQ.
	28-5'S	28W1064	2
	PBY-5	28W1064	2
	PBY-5A	28W1064	2
	PBY-5B	28W1064	2
	PB2Y-3	29W5364	2
	PB2Y-2	29W610	2
	XP3Y-1	28W1064	2

REQUIREMENTS PER AIRPLANE

REPLACES 28W1066- 8-31-36 | CALC. WT. .05 A.R.A.

REPLACED BY | ACT. WT.

LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED + .010 −

SCALE 12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ. -0	RH REQ. -0	LH REQ. -2	RH REQ. -2	LH REQ. -3	RH REQ. -3	LH REQ. -4	RH REQ. -4	LH REQ. -5	RH REQ. -5
-6	1 1/8 X .058 X 3 7/8	AL. AL. TUBE	4472 SECOND										

PARTS LIST PER ASSY.

AC		J.S	U.P.S.			MILLER		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	LCH		
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT.	MAT.	APPROV.	ENG.	

NAME HOUSING-WING-FLOAT LOCK-SPRING

OPP. HAND

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

DWG. B SIZE 28W1066

28W1066

ASSY DASH NO | MODEL | NEXT ASSY | REQ

REQUIREMENTS PER AIRPLANE

REPLACES

REPLACED BY

STAMP PART NUMBER WHERE S O.I

PART NO | STOCK | MATERIAL

PARTS LIST PER ASSY

-2 -3 -4 -5

AC

NAVY

HEAT TREAT | FINISH

NAME

CONSOLIDATED AIRCRAFT CORP

B 28W5189

28W5189

REQUIREMENTS PER AIRPLANE

STAMP PART NUMBER WHERE SHOWN

PARTS LIST PER ASSY

NAVY

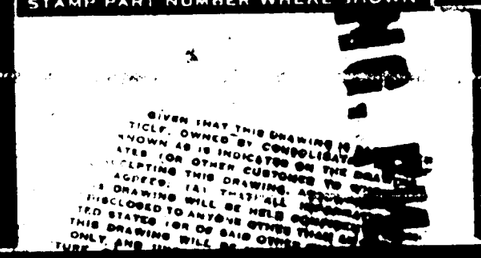
CONSOLIDATED AIRCRAFT CORP

REQUIREMENT PER AIRPLANE

STAMP PART NUMBER WHERE SHOWN

PART N

-2 -4 -5



GIVEN THAT THIS DRAWING IS
TICLE, OWNED BY CONSOLIDAT
KNOWN AS IS INDICATED ON THE DRA
ATES FOR OTHER CUSTOMERS TO
ACCEPTING THIS DRAWING, AGREES
AGREES, (A) THAT ALL
DRAWING WILL BE HELD
DISCLOSED TO ANYONE OTHER THAN
TED STATES (OR OF SAID OTHER
THIS DRAWING WILL BE
ONLY, AND

B

CONSOLIDATED AIRCRAFT CORP

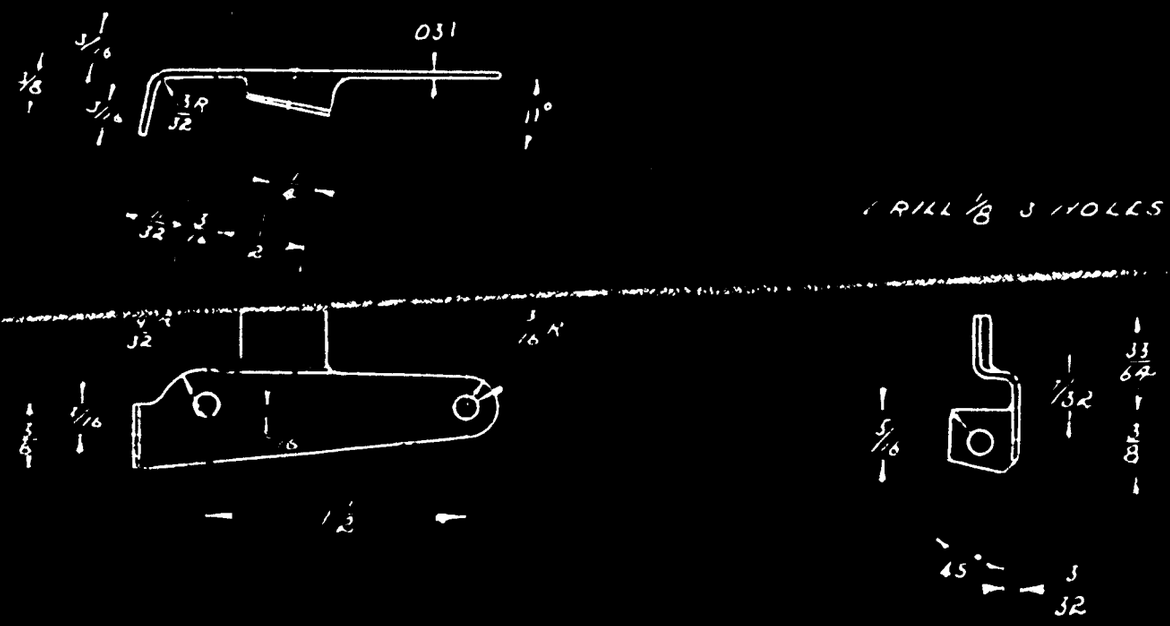
- INCORPORATED

PBY-1 BU. AER CHG #131

PBY-2 " 91

C TRACE

12-14-38 (LVNVLO)



PBY-3R 28C4062 1

PBY-3R 28C4062 1

PBY-3 28C4062

PBY-4 28C4062

L.B.M. 12-14-38

012

010

12 = 1' 0"

CORR RE STEEL	47 S-21	ANNEALED	PASSIVATE	HALV 6-20-38	NORMAT HARD 6-20-38 R

RUBBING PLATE

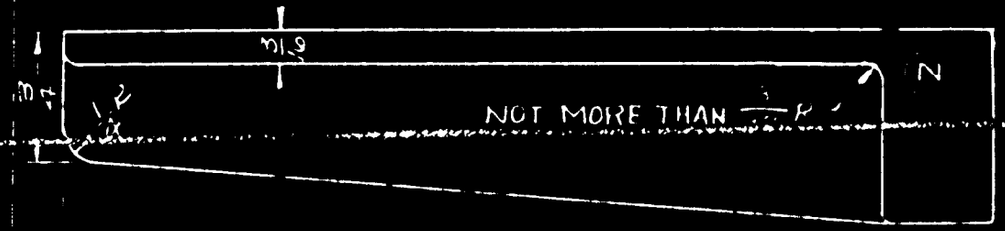
RUDDER LOCK-COCKPIT

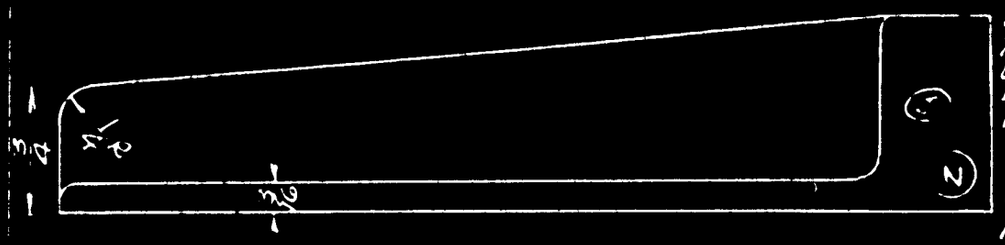
A 28C4061

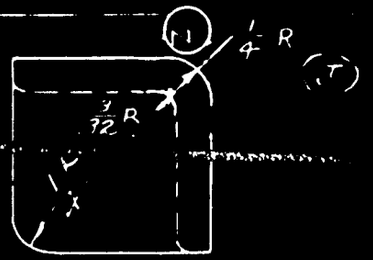
ENG. FILE

OPPOSITE HAND

	(FORGING NOT AFF)		
N	¼ R WAS 3/32 R, REMOVED 3/32 R (2 PLACES) AFTER ½ R (1 PLACE) B29 & L. CRAIN		







SEE RELEASES

B24E
B32MF
B24D
B24C
XB24
B29
B29A
} SEE B/M SHEET

LIMITS ± 1/16 / 1/64

PBY-3A	SEE MAT'L SHEET	PB2Y-3	29B3638	8
PBY-2	SEE MAT'L SHEET	PB2Y-3	29W3738	8
PBY-1	SEE MAT'L SHEET	MODEL	NEXT ASSY	REQ
P2Y-2	SEE MAT'L LIST	PBY-5A	SEE B/M	
		PBY-5B		

	EQ. CCOM ½" WI. SUG. ALG.		SCALE
	ANGLES: MT. FROM G. SOCO R.		
	SPEC. FROM QQ-A-367-72 GG		
	MATERIAL FROM 14ST ALC	(LOFTING MAT'L)	
	ASIST: NAVY SPEC FROM		
C	CHGD MAT'L FROM 14ST 70		
J	ADDED 3/32 R.	3-26-40	[illegible]
H	REMOVED DRAFT NOTE ADDED LIMITS	11-11-35	GYKEN
G	MATL. SPEC WAS .76 AT	11-25-35	JAFFE
F			
E	BROUGHT TO DATE & TRACED	2-28-34	M.L.A.

XCU 11-20-30

229# .229

14ST

NL ALLOY FORG

AN-A-367-GR5
QQ-A-367-GR5

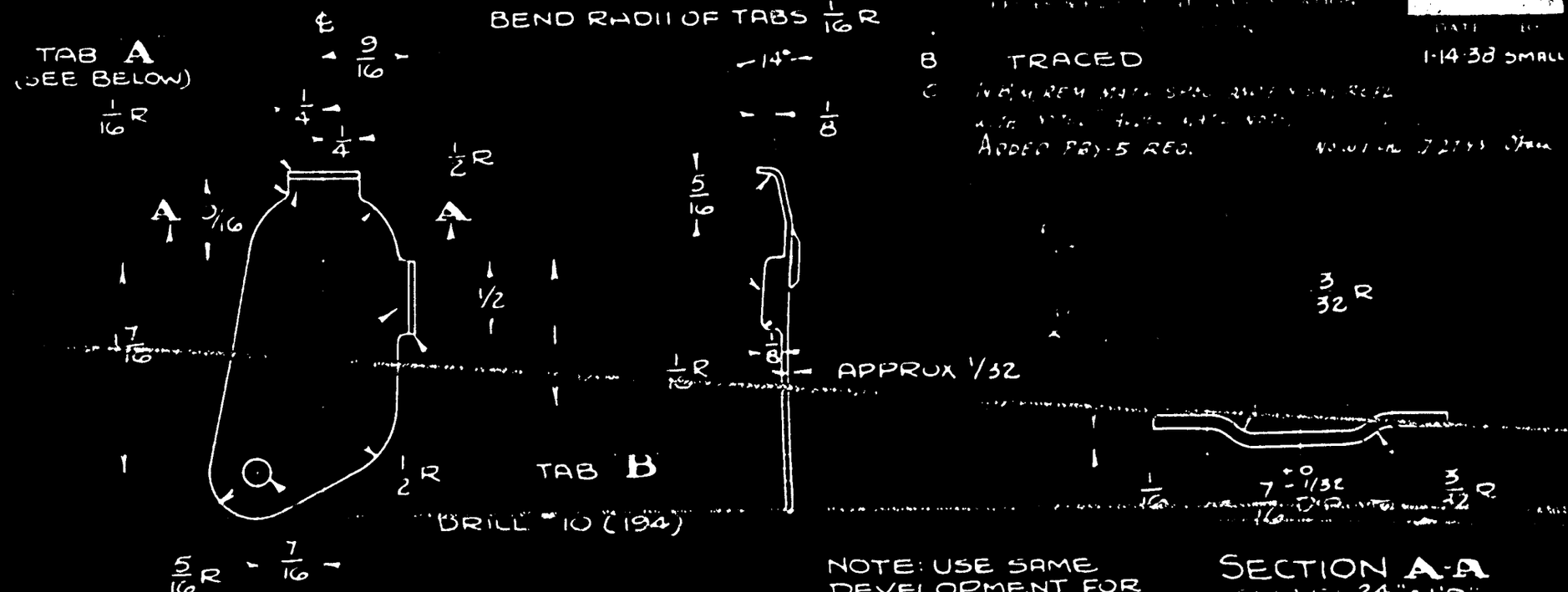
TREAT 65,000 #/M

NONE

	DETAIL PARTS PER ASSEMBLY		
	DRAFTSMAN	CAG	7-31-31

FITTING - HULL - KEEL TRUSS - BLNTR FORE

DRWG. NO. 29M71



COVER
SCALE: 12"=1'0

SECTION A-A
SCALE: 24"=1'0"

NOTE: USE SAME DEVELOPMENT FOR -2 & -3

PART #	DESCRIPTION
-2	TAB "B" BENT UP - TAB "A" REMOVED
-3	TAB "A" BENT UP - TAB "B" REMOVED

-3	PBY-5A	28W5005	4
-2	PBY-5A	28W5005	4
-3	PBY-4	28W4005	
-2	PBY-4	28W4005	
-3	PBY-3	28W3005	
-2	PBY-3	28W3005	
-2	PBY-2	28W2005	

MATERIAL NOTE
(1) -2 & -3 MAY BE MADE FROM

5-22-37
.01
NOTED

NOTED NOTED NONE NOTED

BOULEY MOFFATT
5-22-37 R

1-14-38 SMALL

TRACED

ADDED PBJ-5 REQ.

ENG. FILE

COVER-WING-BOMB HOIST CABLE SLOT
28W2022 A

FORM NO. 1948 P & S

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

PAGE

MODEL _____ AIRPLANE REPORT NO. _____

PLANNED
28Z5513
Sheet # 1 of 20
PBY-5A

MARKING & STENCILING
ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

EXCEPT AS NOTED OTHERWISE ON 28Z5502

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED.

TITLE	INSTRUCTIONS FORWARD BULKHEAD #1	MARKING
ANCHOR REEL HOUSING	TO CONFORM WITH 28H1012-50	
WINDSHIELD COVER	STENCIL ON TOP OF COVER, IN WHITE PAINT	NO STEP
	STENCIL ON BOTTOM	PBY-5A NO.
SLOT COVER	STENCIL ON TOP OF COVER, IN WHITE PAINT	NO STEP
	STENCIL ON INSIDE	PBY-5A NO.
FIRING KEY POCKET	TO CONFORM WITH 28F298-0	
PELORUS BRACKET	STENCIL ON TOP FACE OF BRACKET	PBY-5A NO.
PELORUS BRACKET STOWAGE	STARBOARD SIDE BETWEEN FRAMES #0.66 & #1.00, BETWEEN STRINGERS #122 & #160, STENCIL ON SKIN	PELORUS BRACKET
NOSE WHEEL CYLINDER	STENCIL ON TOP OF CYLINDER	NOSE WHEEL CYLINDER
BOMBER'S BACK REST	INSIDE TOP CHANNEL	PBY-5A NO.
REVOLVING WINDSHIELD	STENCIL ON FACE OF SHELF, TO LEFT OF GUN SLOT OPENING ABOVE LOCK	TO STOW GUN ROTATE TO STOP
REVOLVING WINDSHIELD LOCK	STENCIL AT LOCK HANDLE LOCATED TO THE LEFT OF GUN CARRIAGE	ROTATE TO STOP LOCK
BOMBSIGHT COVER	STENCIL ON INSIDE OVER SPECIFIED FINISH, PAINT THE UPPER AFT AREA BLACK	PBY-5A NO.
HAND HOLD COVER	ON INSIDE	PBY-5A NO.
SNUBBING POST STOWAGE	TO CONFORM WITH 28F4158	

BY M. PECEN

CHECKED _____

APPROVED _____ DATE

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CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

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MODEL AIRPLANE REPORT NO.

MARKING & STENCILING

ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

28Z5513
Sheet #2 of 20
PBY-5A

EXCEPT AS NOTED OTHERWISE ON 28Z5502

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS FORWARD BULKHEAD #1	MARKING
SNUBBING POST BAG STOWAGE	TO CONFORM WITH 28F2524	
NOSE LANDING GEAR	PAINT TOP SURFACE OF 28L5098 AND 28L5097 DOWN BUMPER WHITE COLOR AFTER FINAL FINISH. WHITE PAINT IS NOT TO BE COVERED WITH PARAL-KETONE.	
NOSE LAND[illegible] GEAR RELEASE	STENCIL ON TOP OF NOSE LANDING GEAR RELEASE	NOSE L.G. RELEASE
GUN STOWAGE	STENCIL BELOW GUN STOWAGE - STARBOARD SIDE BETWEEN FRAMES 0.66 & 1.00	GUN STOWAGE
SEAT BACK	BETWEEN STRAPS ON SKIN STARBOARD SIDE BETWEEN FRAMES 0.66 & 1.00	SEAT BACK
TURRET ARMOR PLATE	PORT SIDE BETWEEN FRAMES 0.33 & 0.66 ON SIDE OF ANCHOR BOX - STENCIL	TURRET ARMOR PLATE
~~MACHINE GUN ARMOR PLATE~~	~~PORT SIDE BETWEEN FRAMES 0.33 & 0.66 ON DECK BELOW ANCHOR BOX - STENCIL~~	~~MACHINE GUN ARMOR PLATE~~
CRANK FOR OPERATING ANCHOR REEL	PORT-SIDE BETWEEN FRAMES 0.33 & 0.66 ON ANCHOR BOX - STENCIL	USE CRANK IN MECHANIC'S COMPARTMENT FOR OPERATING ANCHOR REEL
OPERATING ANCHOR	PORT SIDE BETWEEN FRAME 0.66 TO 1.00 ON ANCHOR BOX - STENCIL	PULL FOR BRAKE, ANCHOR IN FREE PAWL LOCK
OXYGEN REBREATHER STOWAGE	PORT SIDE BETWEEN FRAMES 0.66 AND 1.00 - STENCIL IN CENTER OF BRKT.	OXYGEN REBREATHER

BY

CHECKED

APPROVED

FORM NO. 1948 7 6 5

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

PAGE

MODEL AIRPLANE REPORT NO

MARKING & STENCILING

ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

EXCEPT AS OTHERWISE NOTED ON 28Z5502

28Z5513
Sheet #3 of 20
PBY-5A

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS FORWARD BULKHEAD #1	MARKING
PELORUS BRACKET MOUNTING	ON INSIDE VERTICAL FACE OF TURRET BETWEEN UPRIGHTS 3 & 4 TO THE LEFT OF GUN SLOT OPENING	PELORUS BRACKET (3/8 INCH LETTERS)
BUOY HOOK STOW	STARBOARD SIDE ON STRAPS BELOW AMMUNITION RACK - STENCIL ON STRAPS	BUOY HOOK
WINDSHIELD COVER STOWAGE	STARBOARD SIDE BULKHEAD #1 STENCIL ON STRAP	REVOLVING WINDSHIELD COVER

BY

CHECKED

APPROVED

FORM NO 104 PEYE & SMITH

CONSOLIDATED AIRCRAFT CORPORATION PAGE

MODEL AIRPLANE REPORT NO.

MARKING & STENCILING
ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

28Z5513
Sheet #4 of 20
PBY-5A

EXCEPT AS NOTED OTHERWISE ON 28Z5502

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD.#1 & #2	MARKING
SURFACE CONTROL LOCK	ALONG BARREL OF LOCK, STENCIL IN WHITE LETTERS 1/4" HIGH	CONTROL LOCK PBY-5A NO.
CONTROL LOCK STOWAGE	ON PORT SIDE FORWARD OF BLKHD.#2, STENCIL	CONTROL LOCK
PELORUS BRACKET	ON BRACKET STENCIL	PBY-5A NO.
AFC COVERS	ON INSIDE OF METAL AFC COVERS, STENCIL	PBY-5A NO.
GEAR ACCUMULATOR	ON GEAR ACCUMULATOR, STENCIL IN BLACK LETTERS 1/4"	GEAR ACCUMULATOR
BRAKE ACCUMULATOR	ON BRAKE ACCUMULATOR STENCIL IN BLACK LETTERS 1/4"	BRAKE ACCUMULATOR
UNLOADING VALVE	STENCIL ON PLATFORM BY VALVE IN 1/4" BLACK LETTERS	UNLOADING VALVE
NOSE WELL VENT	VERTICAL ON NOSE WHEEL VENT, IN 1/4" BLACK LETTERS	NOSE WELL VENT
HYDRAULIC HAND PUMP	STENCIL ON FLOOR AFT OF PUMP, IN 1/4" BLACK LETTERS	HYDRAULIC HAND PUMP
BULKHEAD #2	ON CENTERLINE SHIP ABOVE DOOR STENCIL	2
DOOR	NEAR TOP, STENCIL	2
FLARE RELEASE HANDLE	ABOVE DOOR ON BLKHD. #2 LOWER FACE OF FLARE RELEASE HANDLE BRACKET STENCIL	FLARES
TUNING UNIT & SWITCH BOX	FORWARD SIDE OF BLKHD.#2 TO CONFORM WITH 28F5102	
SURFACE CONTROL LOCK	ALONG STRAP IN 1/4" BLACK LETTERS, STENCIL	ATTACH TO PILOT'S SEAT

BY

CHECKED

FORM NO. 1813 F 6 6

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO CALIFORNIA

PAGE

MODEL ____ AIRPLANE REPORT NO ____

C

MARKING & STENCILING
ALL INSIGNIA & MARKING TO
CONFORM WITH SPEC. SR-2A

28Z5513
Sheet #5 of 20
PBY-5A

EXCEPT AS NOTED OTHERWISE ON 28Z5502

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD.#1 & #2	MARKING
PARKING BRAKE MECH.	BELOW WINDSHIELD CLEANER ON STARBOARD SIDE, STENCIL IN 1/4" WHITE LETTERS	PARKING BRAKE
RUDDER PEDAL	PAINT FOOT RESTS BLACK	
BRAKE PEDAL	STENCIL ACROSS PEDAL IN 1/2" WHITE LETTERS	BRAKE
PILOT'S SEAT ARM REST	BOTTOM OF EACH ARM REST	PBY-5A NO.
DRAFT CURTAIN	ON DOOR OF CURTAIN, TOP CENTER STENCIL	28F7015 PBY-5A NO.
BOMBER'S WINDOW COVER STOWAGE	ON PORT SIDE FORWARD OF BULKHEAD #2	BOMBER'S WINDOW COVER
OXYGEN REBREATHER STOWAGE	ON PORT & STARBOARD SIDE FORWARD OF BULKHEAD #2 ON CENTER OF BRACKET - STENCIL	OXYGEN REBREATHER (3/8 INCH LETTERS)
DOOR LOCK	ON BOTH SIDES OF DOOR UNDER HANDLE	LOCK ⌣ LOCK ⌣
PILOT'S VENTS	ON VENT HANDLES PORT AND STARBOARD	OPEN ⌣ (3/8" WHITE)
SLOT COVER STOWAGE	ON STARBOARD SIDE AFT BULKHEAD #1, ON AFT ZEE STENCIL VERTICALLY	SLOT COVER
STEPS	PORT & STARBOARD SIDE ON OPENING STENCIL IN WHITE	STEP

BY ____

CHECKED ____

APPROVED ____

FORM NO. 1848 F 8 8

CONSOLIDATED AIRCRAFT CORPORATION
SAN DIEGO, CALIFORNIA

PAGE

MODEL _____ AIRPLANE _____ REPORT NO _____

MARKING & STENCILING
ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

28Z5513
Sheet #6 of 20
PBY-5A

EXCEPT AS NOTED OTHERWISE ON 28Z5502

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD.#2 & #3	MARKING
RADIO EQUIPMENT	TO CONFORM WITH 28P5102	
TRANSMITTER SUPPORT	STARBOARD SIDE, BETWEEN FRAMES #2.5 & #3.0, ON REAR CHANNEL OF LOWER BRACKET, STENCIL ALSO TO CONFORM WITH 28P1011	GO TRANSMITTER
JUNCTION BOX	ON JUNCTION BOX COVER, AFT OF FRAME #2.5, STENCIL TO CONFORM WITH 28E1145	
BOMBSIGHT COVER STOWAGE	PORT SIDE BETWEEN FRAMES 2.00 AND 2.50 JUST FORWARD OF NAVIGATOR'S TABLE - STENCIL ON STRAP	BOMBSIGHT COVER
FOOD LOCKER	STARBOARD SIDE BETWEEN FRAMES 2.00 & 2.50 ON DOOR STENCIL	FOOD LOCKER
COMPASS MOUNT	ON PORT SIDE ABOVE BULKHEAD DOOR BETWEEN BRACKETS	COMPASS MOUNT
OXYGEN REBREATHER STOWAGE	PORT SIDE OVER AND UNDER FORWARD END NAVIGATOR'S TABLE IN CENTER OF BRACKET STENCIL	OXYGEN REBREATHER
FLARE STOWAGE	PORT SIDE ON DECK BETWEEN FRAMES 2.50 AND 3.00 ON RACKS STENCIL	FLARES
WATER TANK STOWAGE	PORT SIDE OF BULKHEAD #2 STENCIL ON STRAPS	WATER TANK
BULKHEAD #3	ON CENTERLINE SHIP TOP OF BULKHEAD - STENCIL ON BOTH SIDES	3

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FORM NO 154 PRYE & SMITH

CONSOLIDATED AIRCRAFT CORPORATION PAGE

MODEL ..... AIRPLANE REPORT NO. .....

MARKING & STENCILING
ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

28Z5513
Sheet #7 of 20
PBY-5A

EXCEPT AS NOTED OTHERWISE ON 28Z5502

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD #3 & #4	MARKING
RADIO OPERATOR'S LOCKER	STARBOARD SIDE, RADIO OPERATOR'S TABLE, STENCIL ON CENTER OF DOOR NEAR TOP	CONFIDENTIAL LOCKER & RADIO SPARES
BULKHEAD #4	FORE & AFT FACES, CENTERLINE OF SHIP, ABOVE DOOR, STENCIL	4
DOOR	ON DOOR NEAR TOP, STENCIL	4
	ALSO TO CONFORM WITH 28B2017	
ELEC. DISTRIBUTION BOX	STARBOARD SIDE INSIDE BOX ON BULKHEAD #4, TO CONFORM WITH 28E4012	
FLOAT SWITCH BOX COVER	FORWARD SIDE BULKHEAD #4 PORT SIDE ALONG TOP OF BOX COVER	INDICATOR LIGHT FUSE 5 AMP
POCKET-ELECTRIC DIAGRAMS	TO CONFORM WITH 22F1744	
G.O. DYNAMOTOR	STARBOARD SIDE, BOTH ENDS OF FRAME #3.66, STENCIL ON BRACKET	DYNAMOTOR
PROTRACTOR STOWAGE	BETWEEN PROTRACTOR STOWAGE STRAPS ON FLANGES OF FRAME #3.66 & #3.33	PROTRACTOR
SIGNAL FLAGS STOWAGE	TO CONFORM WITH 28F1509	
GENERATOR CONTROL	STARBOARD SIDE, ON WEB OF BULKHEAD #4, ABOVE TOP END OF INBOARD BOX, STENCIL	PORT
	ABOVE TOP END OF OUTBOARD BOX, STENCILE	STARBOARD
COIL BOXES	(1) STARBOARD SIDE, BETWEEN FRAMES #3.33 & #3.66 BETWEEN SPARE COIL BRACKETS, STENCIL ON SKIN	SPARE COILS
	(2) STARBOARD SIDE, ON BULKHEAD #4, NEXT TO DOOR, STENCIL ON BULKHEAD WEB	SPARE COILS
	(3) STARBOARD SIDE, AFT END OF FOOD LOCKER, STENCIL	SPARE COILS

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD. #3 & #4	MARKING
	(4) STARBOARD SIDE; BETWEEN FRAMES #3.0 & #3.33 STENCIL ABOVE ANTENNA REEL	SPARE COILS
NAVIGATOR'S HATCH OPENING WARNING	PORT SIDE, ON HULL SKIN OF HATCH IN 1" RED LETTERS, STENCIL	BEWARE OF PROPS.
NAVIGATOR'S VENTILATOR	ON SKIN JUST AFT OF NAVIGATOR'S VENTILATOR. STENCIL ON END OF KNOB, TO CONFORM WITH 2825502 & 2831269	CAUTION: KEEP NAVIGATOR'S VENTILATOR CLOSED DURING TAKE-OFF & LANDING
NAVIGATOR'S WINDOW SCREEN	TO CONFORM WITH 28P3008	
GEAR BOX	FORE OF BULKHEAD #4 ON CENTERLINE SHIP ABOVE DOOR STENCIL ON BOX	GEAR BOX
SPOTLIGHT STOWAGE	PORT SIDE BETWEEN FRAMES #3.00 AND 3.33 ON DECK STENCIL	SPOTLIGHT
FLOAT CONTROL SWITCH BOX	FORWARD SIDE BULKHEAD #4 PORT SIDE ON CENTER OF BOX COVER STENCIL	FLOAT CONTROL
DRIFT SIGHT STOWAGE	PORT SIDE ON TOP OF BOX OVER NAVIGATOR'S TABLE BETWEEN FRAMES 3.33 AND 3.66	DRIFT SIGHT STOWAGE
NAVIGATOR'S VENTILATOR	STARBOARD SIDE ON VENTILATOR KNOB	OPEN (3/8" WHITE LETTERS)
INSTRUCTIONS FOR OPERATING HEATERS	TO CONFORM WITH 28ZR-28-046	

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD. #3 & #4	MARKING
RADIO EQUIPMENT	STENCIL ON RADIO TABLE TO CONFORM WITH 28F060-155, STENCIL ON RADIO SHELF TO CONFORM WITH 28F3065	
RADIO OPERATOR'S INSTRUMENT PANEL	ON METAL STRAP, CENTER OF PANEL, STENCIL IN 1/4" WHITE LETTERS	OUTPUT METER
ANTENNA REEL	STARBOARD SIDE, BETWEEN FRAMES #3.0 & #3.33, STENCIL ON FACE OF BRACKET	ANTENNA REEL
SPARE BULBS	PORT SIDE OF DOOR, STENCIL ON BOX IN 1/4" BLACK LETTERS	SPARE BULBS
NAVIGATOR'S OCTANT & BINOCULAR STOWAGE	ON PORT SIDE AT FRAME #3.33 ABOVE TABLE ON DOOR OF LOCKER, STENCIL	OCTANT & BINOCULAR STOWAGE
PELORUS DRIFT SIGHT	PORT SIDE 10" AFT OF FRAME #3.33 ON STRINGER #340	PELORUS
AC FUSE BOX	FORWARD BULKHEAD #4 STARBOARD SIDE OUTBOARD END OF MAIN DIST. PANEL ON HINGED COVER OF BOX, STENCIL	AC FUSES

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD #4 & #5	MARKING
MAINTENANCE MANUAL ENGINE LOG BOOK & AIRCRAFT LOG BOOK POCKET	TO CONFORM WITH 28P229-0	
PILOT'S HANDBOOK	TO CONFORM WITH 28P1508	
KIT-MISCELLANEOUS EQUIPMENT-SPECIAL TOOLS	STENCIL TO CONFORM WITH 28U1025-50	
	STENCIL ALSO IN SAME LOCATION	NO.
TOOL & MISC. GEAR LOCKER	PORT SIDE NEXT TO BULKHEAD #5 STENCIL ON INBOARD FACE OF REAR LOCKER	MISCELLANEOUS GEAR LOCKER
	STENCIL ON FORWARD LOCKER	TOOL LOCKER
AUX. POWER UNIT VENTILATION WARNING	ON AFT SIDE OF MECHANIC'S SEAT BACK, STENCIL IN 1" RED LETTERS	WARNING-KEEP HULL COMPARTMENT OPEN WHEN RUNNING AUX. POWER UNIT
FLOAT SWITCH HANDLE BRACKET	TO CONFORM WITH 28E120-25	
COWL FLAPS	PORT & STARBOARD SIDE, AFT FACE OF BULKHEAD #4, BELOW MECHANIC'S INSTRUMENT PANEL, STENCIL AT COWL CRANK	COWL FLAPS
MECHANIC'S SEAT CUSHION	TO CONFORM WITH 22F541-20	
BULKHEAD #5	FORE & AFT SIDES, ON CENTERLINE SHIP ABOVE OPENING, STENCIL	5
MECHANIC'S INSTRUMENT PANEL	IN SUPERSTRUCTURE ON RIGHT HAND SIDE, UNDER INCLINOMETER, STENCIL	ANGLE OF CHORD LINE
MAIN FUEL TANK DRAIN	ON SUPERSTRUCTURE SKIN UNDER BOTH DRAIN VALVES	MAIN FUEL TANK DRAIN

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD. #4 & #5	MARKING
DUMP VALVE HANDLE	ON SUPERSTRUCTURE SKIN ABOVE BOTH DUMP VALVE HANDLE KNOBS	FUEL DUMP VALVE
LOCK FOR MAIN WHEELS	ON PORT & STARBOARD SIDE, ON WEB, STENCIL IN 1/2" RED LETTERS	DOWN LOCK ↗
	ON PORT & STARBOARD SIDE, ON WEB STENCIL IN 1/2" RED LETTERS	UP LOCK →
EMERGENCY RELEASE FOR MAIN WHEELS	ON PORT & STARBOARD SIDE ON WEB, STENCIL IN 1/2" RED LETTERS	EMERGENCY RELEASE ↘
EMERGENCY LOCKING MECHANISM	10" ABOVE EMERGENCY DOOR ON PORT AND STARBOARD SIDE STENCIL IN 1/2" RED LETTERS	EMERGENCY LOCKING MECHANISM
EMERGENCY DOOR	ON DOOR, STENCIL IN 1/2" RED LETTERS	EMERGENCY DOOR
PROPANE STOVE STOWAGE	STENCIL ON ANGLE OF EACH STOWAGE BRACKET L & R	PROPANE STOVE
EMERGENCY RELEASE DOWN LATCHING ROD	TO CONFORM WITH 28L5088	
LUBRICATION OF LANDING GEAR	ON PORT AND STARBOARD SIDE ON REINFORCING ANGLE AFT SIDE FRAME #4.50 WITH ARROW POINTING TO ZERK FITTINGS - STENCIL	LUBRICATE GEAR ↗ ↘
SLING STOWAGE	STENCIL ON FORWARD SIDE OF WEB BULKHEAD #5 THREE PLACES	SLING
ENGINE CRANK STOWAGE	PORT SIDE ON SKIN BETWEEN FRAMES 3.50 & 3.75 IN VICINITY OF STRAP - STENCIL	ENGINE CRANK
CRANK STOWAGE	STARBOARD SIDE AFT BULKHEAD #4 IN VICINITY OF STRAP - STENCIL	RETRACTABLE FLOAT AND ANCHOR CRANK

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD. #4 & #5	MARKING
AUXILIARY POWER UNIT	ON PORT SIDE AFT BULKHEAD #4 ON ANTI-ICER TANK STENCIL	KEEP EXHAUST TWO INCHES OFF ANTI-ICER
ANTI-ICER TANK	ON PORT SIDE AFT BULKHEAD #4 ON TANK AT CUT OFF STENCIL	ON
MAIN L.G. - UPPER MAIN STRUT	PAIN 28L5026-10 WHITE COLOR AFTER FINAL FINISH ON GEAR AS SHOWN	28L5026-10 2" DIA.
CABLE GUARD MECHANIC'S SEAT	TO CONFORM WITH 28F6183	

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD. #5 & #6	MARKING
BULKHEAD #6	FORE & AFT SIDES ON CENTERLINE SHIP ABOVE DOOR, STENCIL	6
DOOR	ON DOOR NEAR TOP, STENCIL	6
	STENCIL ALSO TO COMFORM WITH 28B2018	
LEVELING LUGS	PROJECTING PORTION OF EACH LUG TO BE PAINTED BLACK	
	PORT SIDE ON FORWARD FACE OF BULKHEAD #6, STENCIL NEAR EACH LUG	LEVEL HERE
	PORT SIDE AT FRAMES #5.25 AND #5.75, STENCIL ON SKIN NEAR EACH LUG	LEVEL HERE
SMOKE SIGNAL	ON AFT SIDE BULKHEAD #5 ABOVE ENTRANCE, STENCIL	SMOKE TANK CONTROL OFF ON
CABLE STOWAGE	ON AFT SIDE BULKHEAD #5 ABOVE ENTRANCE ON BRACKET STENCIL 1/2" LETTERS	CABLE STOWAGE
FIRST AID KIT	STARBOARD SIDE, FORWARD FACE BULKHEAD #6 UNDER STRAP STENCIL	FIRST AID KIT
BOAT HOOK STOWAGE	ON FORWARD FACE BULKHEAD #6 AT BOTTOM OF ENTRANCE STENCIL UNDER STRAP	BOAT HOOK
WORKING PLATFORM STOW	ON PORT AND STARBOARD SIDE ALONG CAT WALK ON BOTH FRAMES STENCIL	WORKING PLATFORM

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD.#5 & #6	MARKING
OXYGEN REBREATHER	IN SUPERSTRUCTURE AFT OF MECHANIC'S SEAT - STENCIL IN 3/8" LETTERS	OXYGEN REBREATHER
OXYGEN REBREATHER	PORT AND STARBOARD SIDE AFT SIDE BULKHEAD #5 ON BRACKET - STENCIL	OXYGEN REBREATHER

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS BETWEEN BLKHD.#6 & #7	MARKING
SMOKE GRENADE HANDLE STOWAGE	ON STARBOARD SIDE OF BLKHD.#6 ADJACENT TO STOWAGE CLIPS, STENCIL	SMOKE GRENADE
SMOKE GRENADE CONTAINER	TO CONFORM WITH 28F3012	
SMOKE GRENADE HANDLE	ON HANDLE, STENCIL	PBY-5A NO.
SEA ANCHOR STOWAGE BAG	TO CONFORM WITH 28F4085-5 ALSO STENCIL ON BAG	PBY-5A NO. 28F4085-3
LADDER STOW.	ON STARBOARD SIDE ALONG CAT WALK NEAR STRAPS - STENCIL	LADDER
LIFE RAFT STOW.	STARBOARD SIDE BETWEEN FRAMES #6.6 AND 6.8 STENCIL ON HULL SKIN BETWEEN STRAPS - STENCIL	LIFE RAFT
VERY PISTOL	STARBOARD SIDE BULKHEAD #6 ABOVE AMMUNITION RACK - STENCIL	VERY PISTOL
COMPASS MOUNT	APT SIDE BULKHEAD #6 ABOVE ENTRANCE DOOR BETWEEN BRACKETS STENCIL IN 3/8" LETTERS	COMPASS MOUNT
OUTER WAIST GUN ROTATING ARMAMENT SHIELD	ON APT END BOTH ROTATING SHIELDS IN 3/8" LETTERS - STENCIL	NOTICE - GASKET TO BE DEFLATED AT ALL TIMES DURING FLIGHT

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	INSTRUCTIONS AFT OF BULKHEAD #7	MARKING
BULKHEAD #7	FORE & AFT SIDES, ON CENTERLINE SHIP OVER DOOR, STENCIL	7
ON DOOR	ON DOOR NEAR TOP, STENCIL STENCIL ALSO TO CONFORM WITH 28B2019	7
TUNNEL GUN DOOR	TO CONFORM WITH 28B2650-55	
SAFETY CABLE	OVERHEAD ON STRINGER AFT OF SAFETY CABLE EYE AT FRAME #7.5	SAFETY CABLE
PELORUS BASE STOWAGE	STARBOARD SIDE AFT OF FRAME #7.75 STENCIL ABOVE STRINGER #820	PELORUS BASE
FLOAT LIGHT STOWAGE	ON PORT AND STARBOARD SIDE BULKHEAD #7 ABOVE STOW. - STENCIL	FLOAT LIGHT
FLARE STOWAGE	ON PORT AND STARBOARD SIDE BETWEEN BULKHEAD #7 AND FLARE CANS, NEAR STRAPS - STENCIL	FLARES

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MARKING & STENCILING
ALL INSIGNIA & MARKING TO CONFORM WITH SPEC. SR-2A

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Sheet #17 of 20
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EXCEPT AS NOTED OTHERWISE ON 2825502

ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	NACELLE	MARKING
OIL TANK ASSEMBLY	STENCIL TO CONFORM WITH 28-0-2003 (SEE NOTE ON DRWG. AT B-15) AND 28-0-2018	
DOORS	TO CONFORM WITH 28D2006	
OIL DRAINS, STEPS AND HEATER	TO CONFORM WITH 28D3000, 28D5018 AND 28-0-5001	
STARTER PULL RELEASE AND STARTER CRANK	STENCIL TO CONFORM WITH 28D5000	
ON LOWER OUTB'D. DOOR ON R.H. NACELLE	(DOOR THAT OPENS TO HYD. TEST CONNECTIONS) STENCIL ON INSIDE DOOR TO BE READ WHEN DOOR IS OPEN)	"WHEN OPERATING HYD.SYS. FROM TEST STAND USE 28F6696 FITTINGS (IN SPECIAL TOOL KIT) BETWEEN TEST CONNECTIONS OUTLET & HOSE."

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	WING	MARKING
AILERON	STENCIL DOPING CODE TO FABRIC SURFACE AS PER SPEC. SR-2A PAR.D-5	
STRUTS	TO CONFORM WITH 28W039 AND 28W040	
GENERAL	FOR INSIGNIA AND MARKING, TO CONFORM WITH 2825502	
	EMPENNAGE	
RUDDER	TO CONFORM WITH 28T5006 STENCIL DOPING CODE TO FABRIC SURFACE AS PER SPEC. SR-2A, PAR. D-15	
FIN	TO CONFORM WITH 28T5004	
STABILIZER	TO CONFORM WITH 28T2029	
ELEVATOR	STENCIL DOPING CODE TO FABRIC SURFACE AS PER SPEC. SR-2A, PAR. D-5	
	BEACHING GEAR	
MAIN WHEELS	TO CONFORM WITH 28L5003	
	LANDING GEAR	
DOOR FOR WHEEL MECH.	ON FAIRING DOOR ABOVE WHEEL	NO STEP

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	HULL EXTERIOR	MARKING
ANCHOR LIGHT SWITCH	TO CONFORM WITH 28R4020	
SPOTLIGHT MOUNTING	ON TOP SURFACE OF REVOLVING WINDSHIELD ON LEFT HAND SIDE NEXT TO WINDOW PANEL, AT THREE MOUNTING HOLES, STENCIL	SPOTLIGHT
GENERAL	OTHER MARKING ON HULL EXTERIOR TO CONFORM WITH 28Z5502	
FUEL UNIT	ON BOTH SIDES OF SUPERSTRUCTURE LEADING EDGE FAIRING OF REMOVABLE PANEL, STENCIL	FUEL UNIT
MAIN FUEL TANK STRAINER	ON BOTH SIDES OF SUPERSTRUCTURE FAIRING, AFT OF WINDOW ON REMOVABLE PANEL, STENCIL	MAIN FUEL TANK STRAINER
WING BOLT	ON BOTH SIDES OF SUPERSTRUCTURE, AFT OF REAR SPAR ON REMOVABLE PANEL, STENCIL	WING BOLT
FLOAT STRUT	PAINT BLACK STRIPE AT FORWARD EDGE OF THE INVERTED V ON THE FLOAT STRUT SO THE STRIPE WILL LINE UP WITH THE DIAGONAL STRUT WHEN SITTING IN THE PILOT'S SEAT	
	GENERAL NOTES - INTERIOR	
FLOORS	ALL FLOOR AND WALKWAYS ARE TO BE MARKED ON SIDE	STA. NO. TO STA. NO. PBY-5A NO.
FIRE EXTINGUISHERS	ALL HAND FIRE EXTINGUISHERS (PORTABLE, HAND & PRESSURE) ARE TO HAVE STENCILED IN BLACK LETTERS OF APPROPRIATE SIZE (1/4" or 1/2") ON THEIR SIDES, THE WEIGHT	

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ALL LETTERS TO BE 1/2" HIGH & PAINTED BLACK EXCEPT AS NOTED

TITLE	GENERAL NOTED - INTERIOR	MARKING
	& DATE WEIGHED	
VACUUM LINES	IN ADDITION TO THE COLOR MARKING LINES SHOULD BE MARKED PORT OR STB'D IN EACH COMPARTMENT, AND AT THE JUNCTION OF CENTER SECTION AND SUPERSTRUCTURE	
ENGINE COVERS AND COCKPIT COVER	IN ADDITION TO PART NO. STENCIL ON EACH COVER ENGINE COVERS SHALL ALSO BE MARKED PORT OR STB'D	PBY-5A NO.
LIFE JACKET AND TOILET BAG STOWAGE BAG	TO CONFORM WITH 28F1520	
OXYGEN REBREATHER	STENCIL 28F5168-0 PANEL 1/4" HIGH BLACK LETTERS WHERE 29F2220 CLIPS ARE MOUNTED ON SHIP STRUCTURE	OXYGEN REBREATHER

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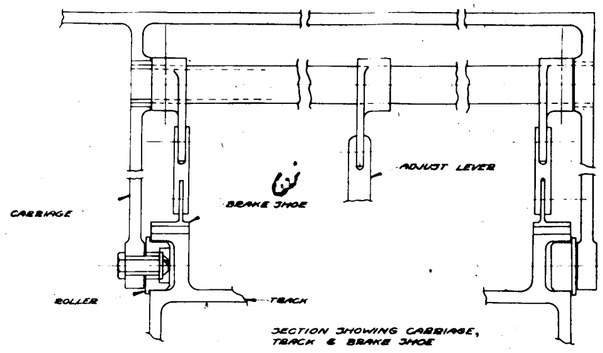


SECTION SHOWING CARRIAGE, TRACK & BRAKE SHOE

LET	ALTERATION
E	TRACED
F	CHANGED AN-H-32 TO AN-H-32A
G	CHANGED BRACKET ALIGNMENT
H	ADDED - BRACKET (INCORPORATED: C.O. # 28674)
J	REVISED DETAILS A & B
K	ADDED MOUNTINGS (ENG REF) AND NOTE AS TO VISIBILITY ON SIGHT
L	ADDED - FAIRLY FOR REF. 5313 TO 2338 R/H AND 5314 TO 2339 L/H WIRING WITH BRACKET
M	28F1429-85 ADDED
N	28F5121 WAS 28F2151
O	CHANGED 28F1500 TO 28F1500-25 AND 28A7066-3, BRACKET, ADDED AND ADDED 28F5121 FOR REF. ADDED ANN'S-BOLT
P	CREATED SUB-ASSY (-2) CONSISTING OF 28A7112, AN960-8R16 WASHER, AN442-8A (NO WT CHG.)
Q	ADDED "R" - NOT FURNISHED INSTALL EQUIP.

E.O. 26376

E.O. #A 12614
E.O. 28, 2, 8
HCF 28 L-1

TURRET

GUN TRACK

℄ TURRET

NOSE UP 8°
(RMS REF.)

PARALLEL TO DECK

NOSE DOWN 2°
(ENG. REF.)

NOSE DOWN 5°
(ENG. REF.)

MARK III. BOMBSIGHT. (R.H.)
(GOV'T FURNISHED & INSTALLED)
SEE NOTE ON CONTRACTOR INSTALLED EQUIP.
FOR AIRPLANES AFFECTED

MOUNTING SURFACE

ANTI VIBRATION MOUNTS (REF.)

UPPER STOP

SHANK THDS OF ROLLER SCREWS AFTER ASSY.

AN442D-8 RIVET

28A5112 ROD

AN960-8516 WASHER

28A5116 (REF.)

28F1428

28F5121 (-2 ASSY ONLY)

KNEE REST 28F1483 (REF.)

NAVY INSTALLED (CONT. 28F1476, 28 R.H., 29 CONT. 28F1477 L.H. TYPE 24 CONT. 28F1476, 28 R.H. 29 L.H.)

C.A.C. INSTALLED

BOMBSIGHT FLOOR (REF.)

28F1483

NOTE: G.F.E. / CONTRACTOR INSTALLED ON CONT. #21876 - "N" ON PBY-5 CONT #N53385 - PBY-5A

*GOVT FURNISHED INSTALL. EQUIP.

-2	PBY-5A	28F5112	1	28F1500-25	1
-2	PBY-5	28F1500	1		
-0	PBY-5	28F1500	1		
-0	PBY-5	28F1002	1		
-0	PBY-5	28F1002	1		
-0	PBY-5	28F1002	1		
-0	PBY-5	28F1002	1		
-0	PBY-5	28F1002	1		
-0	PBY-5	28F1002	1		

DISPLACES
DISPLACED BY
LIMIT OR SHOWING SHOWN
OTHERWISE SPECIFIED

APPROVED DATE
SCALE 6"=1'-0"
DRAWN
TRACED
CHECKED
MATERIAL

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME BOMBSIGHT INSTAL. MK XII

J 28A1002

LATERAL LIMIT OF BOMBSIGHT

AN515-D8-8 12 REQ'D
AC365-D832 12 REQ'D
AN960-D8 24 REQ'D
DRILL #19 (.166) - LOCATE 12 HOLES FROM PAD 28F1434 (REF.)

(K) ENG REF. ONLY

37½° (ENG REF.)

45° (ENG REF.)

MAX LEFT SIGHTING POSITION
NEUTRAL SIGHTING POSITION
MAX RIGHT SIGHTING POSITION

28A5111 (REF.)

NOTE: KNEE PAD FASTENED TO B.F. 033 THRU PLAIN ANGLE FLAP FOR ATTACH PAD TO BE ON TOP

℄ SHIP

KNEE PAD 28F1486 (REF.)

α (ENG. REF.)

65° VERTICAL RANGE OF BOMBSIGHT (ENG. REF.)

ε (ENG. REF.)

β (ENG. REF.)

LATERAL SIGHTING ANGLE FOR NAVIGATION

PLAN VIEW

REF. 28F1418, AN380-10-6, AN935-10

REF. ANTI. VIB. MOUNT: LORD MANUF. CO "200-P45 GOVERNM. RUBNION (REF) AN-1-3-A 8 PLACES HOUSFIED AS PER DOUGLAS DWG. #1015834
AN-315-3B 8 PLACES
STAKE THDS.
AN935-10-1 REQ'D
28A2041 FABRIC WASHER (3 REQ'D) (H)

SIGHTING DATA (ENG. REF.)

1. ESTABLISHED FLIGHT ANGLES FOR THE PBY-1 AIRPLANE ARE AS FOLLOWS:
   a. NOSE UP 8° FOR A SPEED OF 10% ABOVE STALLING AT SEA LEVEL.
   b. NOSE DOWN 5° FOR A SPEED OF 10% BELOW TOP SPEED AT SEA LEVEL.
2. THE LOADING CONDITION FOR THE ABOVE DATA IS WITH FULL BOMB LOAD LESS 40% FUEL.
3. THE NOSE DOWN 2° CONDITION IS WITH FULL LOAD LESS 40% FUEL AND FULL SPEED AT 90% OF THE SERVICE CEILING.
4. ALL FLIGHT ANGLES ARE GIVEN RELATIVE TO THE DECK.

FLIGHT ANGLES			NOSE UP 8°	NOSE DOWN 5°	NOSE DOWN 2°
		LATERAL SIGHTING POSITION			
β	AFT SIGHTING ANGLE	MAX. RIGHT	+6⅛°	-4°	-1⅛°
		NEUTRAL	+2⅛°	-8⅛°	-6°
		MAX. LEFT	-1⅜°	-12⅝°	-10½°
α	FORWARD SIGHTING ANGLE	MAX. RIGHT	+90°	+86°	+87°
		NEUTRAL	+90°	+85½°	+86½°
		MAX. LEFT	+90°	+85°	+86°
ε	LIMIT OF VERTICAL SIGHTING ANGLE WITH LATERAL ANGLE OF 45° FOR NAVIGATION		63°	50°	53°
	FOR LATERAL ANGLE OF 37½°		90°	80°	83°

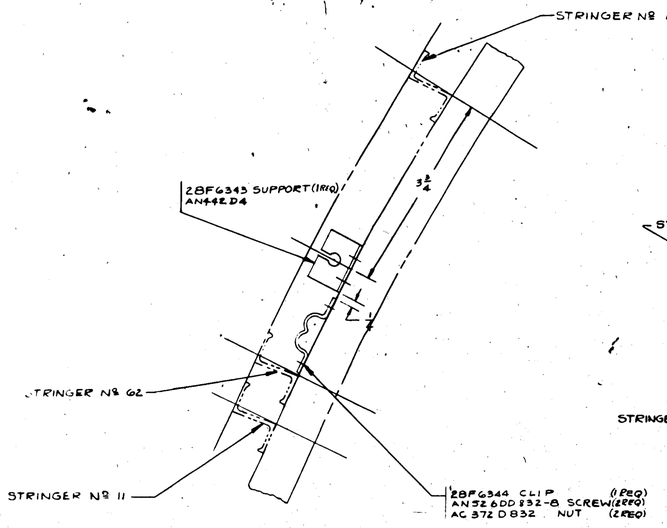
CODE
+ ANGLES ARE FORWARD OF VERTICAL ℄ BOMBSIGHT
- ANGLES ARE AFT OF VERTICAL ℄ BOMBSIGHT

ENG. REF. ONLY

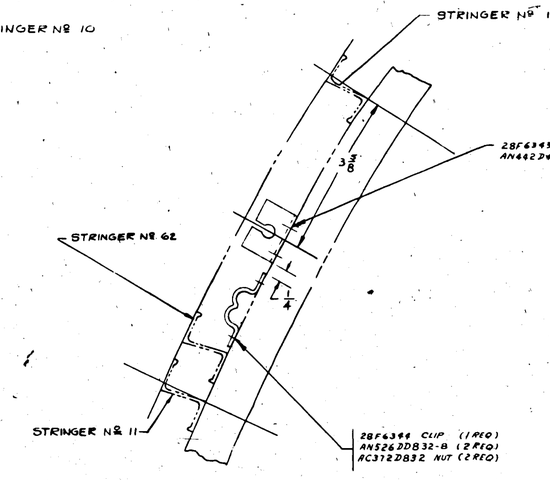
(R) NOTE - WITH AIRPLANE LEVEL, IT MUST BE POSSIBLE TO OBTAIN AN ANGLE OF 6⅛° +/- ON SURFACE OF BOMB SIGHT CARRIAGE WITH THE RAILS OF THE CARRIAGE AGAINST THE UPPER STOPS.

(Q) 28F1500-25

H 27



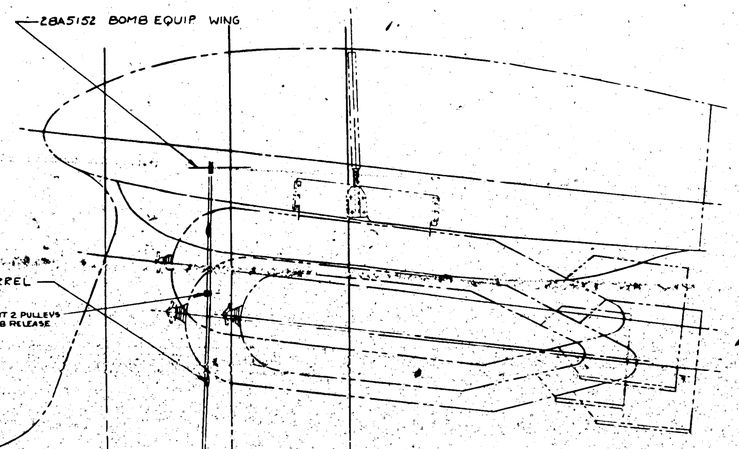
VIEW BB-BB
FULL SIZE

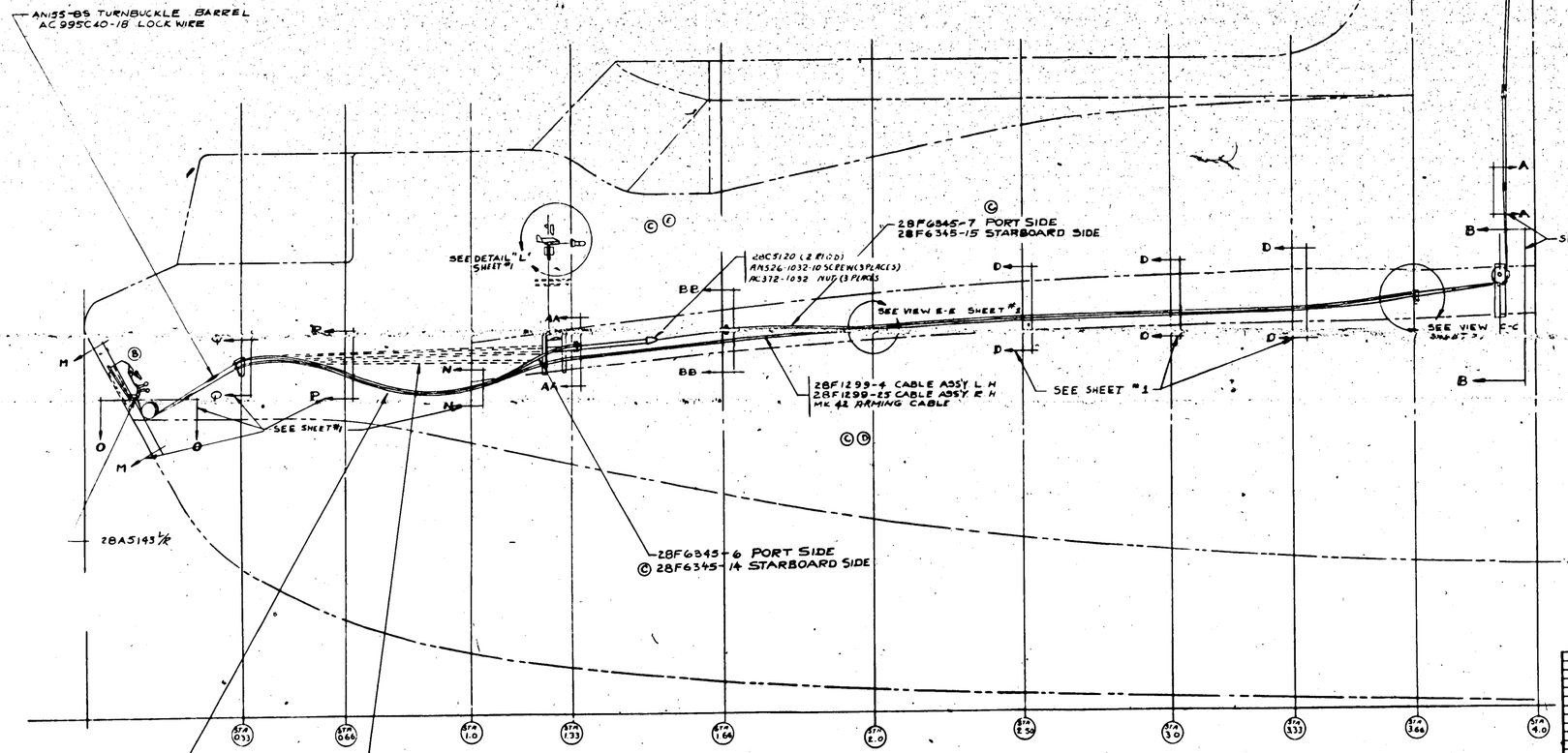


VIEW AA
FULL SIZE

LTR	ALTERATION	DATE	BY
A	ADDED CKT WIRE FOR ANT. CKT.		
B	28F1299-32 WAS 28F1299-25		
C	28F1299-32 WAS 28F1299-25 28F1299-33 WAS 28F1299-4 QB303 ONLY ADDED 28F1299-303 ONLY QB308 WAS QB308-DC-76 (ANDREWS). ADDED 28F6345-16&-15 FOR STBD SIDE & LIMITED 28F6345-6&-7 TO PORT SIDE. WT CHG NEG.		
D	REVD 28F1299-32&-33. WT CHG NEG.		
E	REVISED QB308 ONLY & 3/8 (1) & QB307 ONLY 67 3/8 (1) WT. CHG INC.		
F	ADDED NOTE (USE FRONT 2 PULLEYS FOR BOMB RELEASE CABLES) NO WT. CHG.		

E.O. A970
E.O. A927
E.O. B0498
E.O. B80392





SIDE VIEW (-100 ASS'Y) Ⓐ
1/8 SCALE

NOTE:- FOR DETAILS NOT SHOWN SEE SHEET Nº 1

SEE SHEET #1 FOR B.M.

PART NO.	STOCK	MATERIAL	SPEC	REQ	REQ	REQ	REQ	REQ
				-0	-2	-3	-4	-5

PARTS LIST PER ASSY

A/C			
NAVY			
NEXT ASSY	NUMBER		

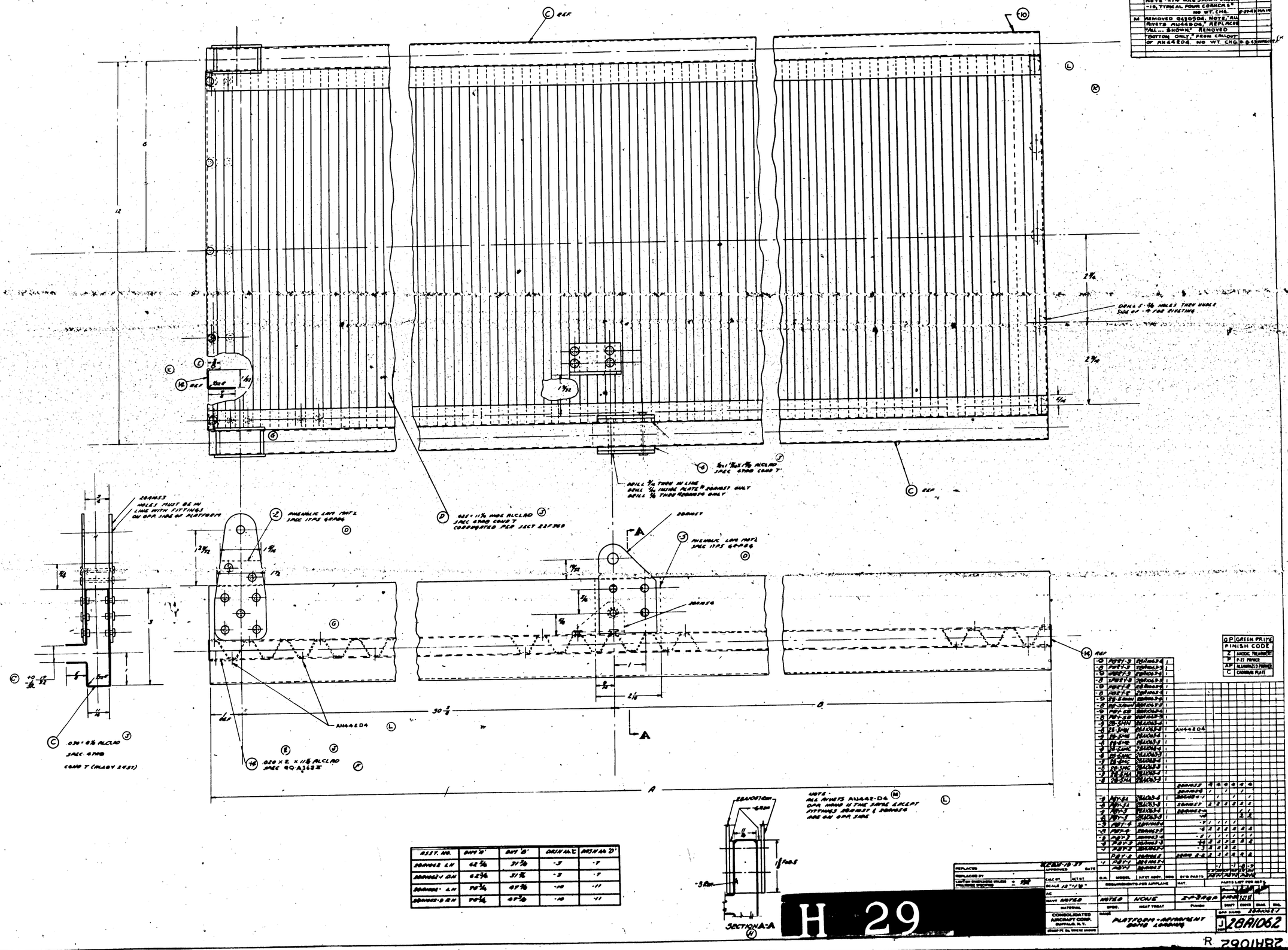
DRAWN			
TRACED			
CHECKED			
APPROVED			

NAME: INSTALLATION
ARMAMENT BOMB EQUIPMENT
CONSOLIDATED AIRCRAFT CORP

CODE IDENT NO. J
DWG NO. 28A1015
SHT 2 OF 2

H 28

LET	ALTERATION	BY	DATE
D	TRACED UP TO DATE		9-9-37
C	ADDED "DATUM TO [illegible] DIM OF C		9-23-37
B	PHENOLIC MATL WAS GRADE FBG		9-23-37
A	3/8 WAS 5/16		10-30-40
E.O.24046	WAS .080 X 6 X 11 1/2 AL ALLOY SHT		10-30-40
E.O. 24629	SPEC 47A10 COND "A" H.T. SHEET		
E.O. 25477	RIVETING REMOVED FROM EVERY SECOND STATION TOP & BOTTOM		10-30-40
H	ADDED STA. A-A		2-20-41
J	ADDED -6 & -10 R-11 ALCLAD SHEET WAS AL ALLOY 42SW-X NO WT. CHG.		4-2-42
E.O. 26174	-14 STAMPED -9. DIM 19/32 WAS 1/2		
	MATL ADDED MATL -19 W SHOWN - - ADDED WT. CHG. REQ.		4-17-43
E.O. 19324	L ADDED NOTE "AN442D4 ONLY" NOTE "ALL RIVETS B41-D4 --- ON R.H. SIDE." WAS "ALL RIVETS B4--D4 R.H. SIDE." REMOVED NOTE "-14 WAS SHOWN UNDER -10, TYPICAL FOUR CORNERS" NO WT. CHG.		9-27-43
M	REMOVED B41D04, NOTE, "ALL RIVETS AN442D4," REPLACED "ALL -- SHOWN" REMOVED "BOTTOM ONLY," FROM CALLOUT OF AN442D4. NO WT. CHG.		

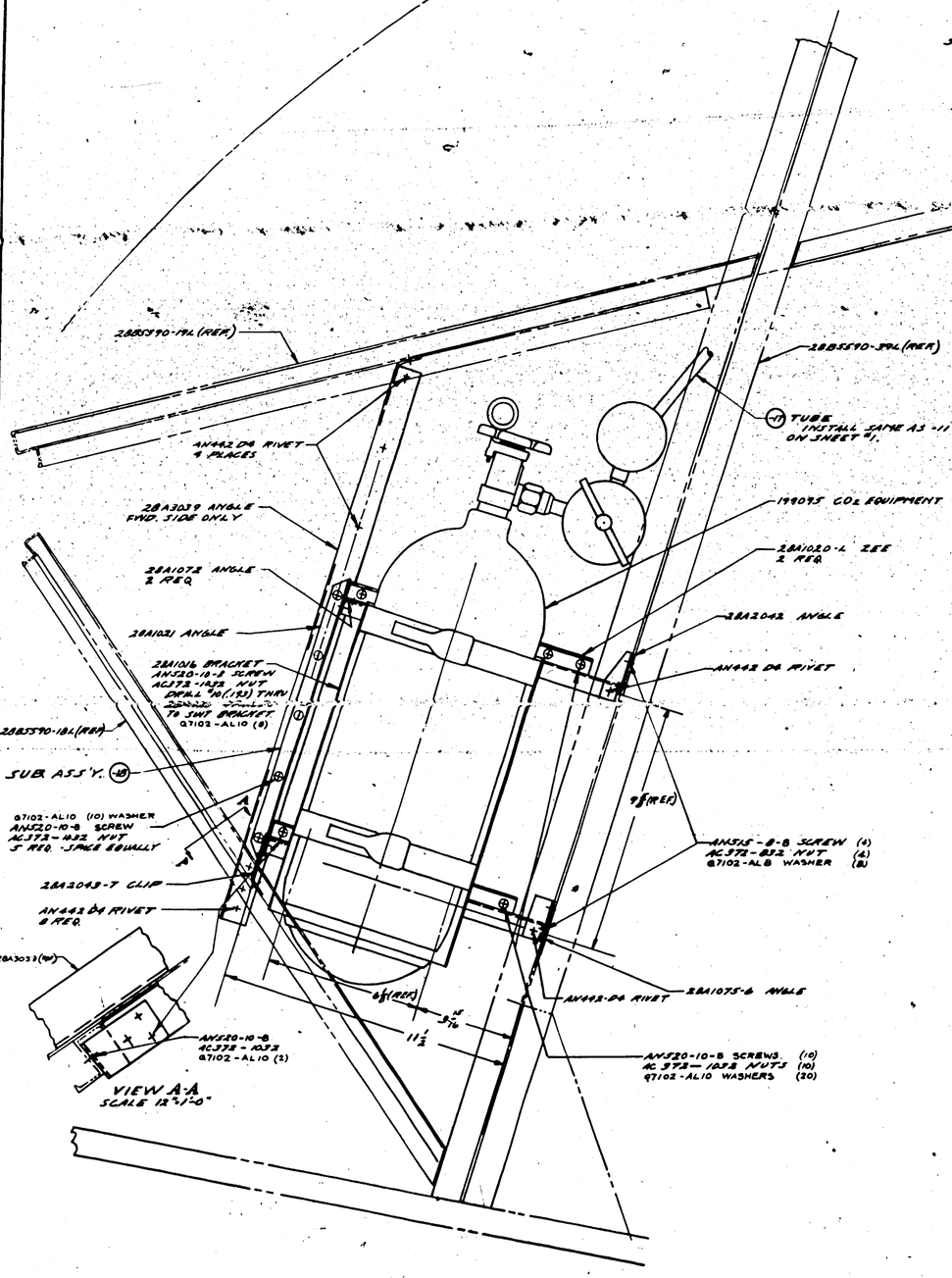


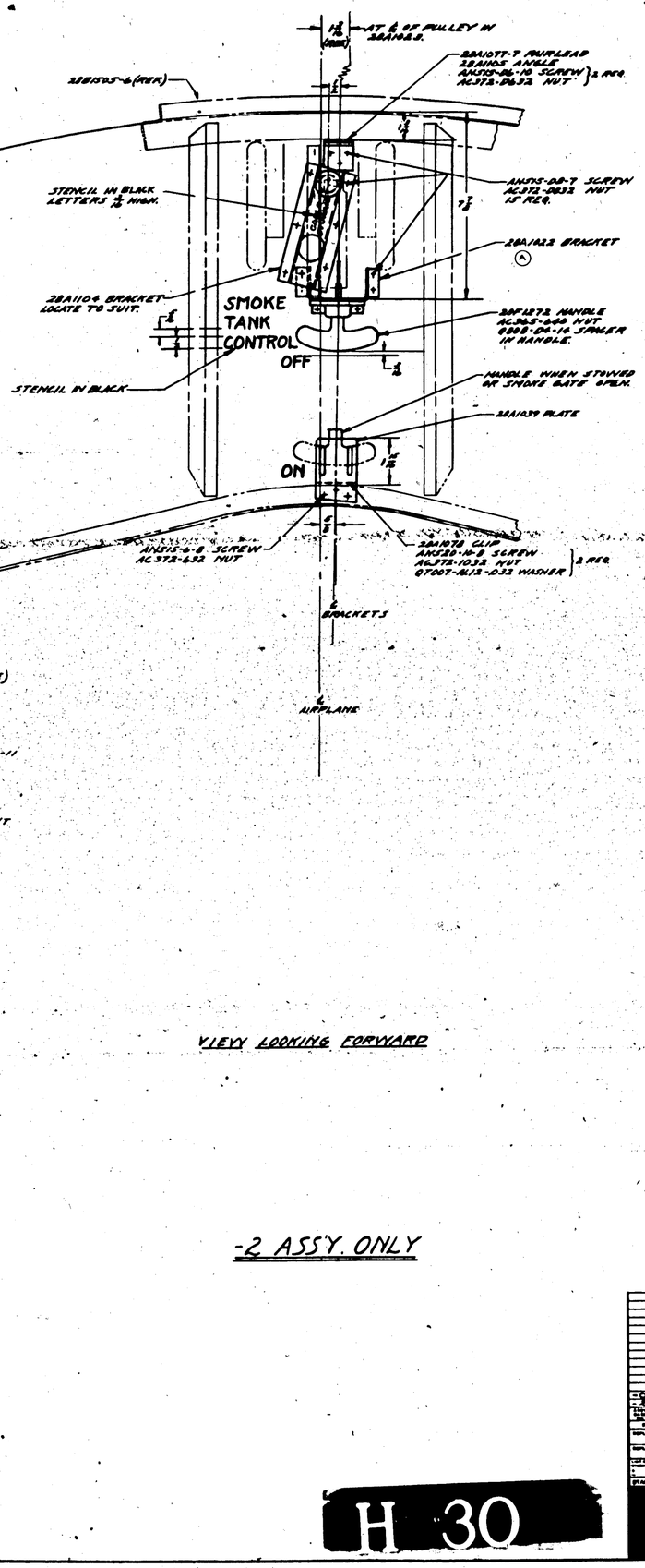
PART NO.	DIM "A"	DIM "B"	DASH NO. "C"	DASH NO. "D"
3004852-LH	62 5/16	31 7/16	-5	-7
3004852-1 RH	62 3/16	31 5/16	-5	-7
3004853-LH	76 3/16	43 5/16	-10	-11
3004853-1 RH	76 1/16	43 1/16	-10	-11

GP	GREEN PRIME FINISH CODE
Z	ANODIC TREATMENT
P	P-37 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

| | | |

ST.	ALTERATION	DATE	BY	LET.	ALTERATION	DATE	BY
A	ON BACK LOG - 28A1028 WAS 28F1028. NO WT CHG.	10-5-42	APP				





VIEW LOOKING FORWARD

-2 ASS'Y. ONLY

SEE SHEET 1 FOR B/M

PART NO.	SYMBOL	MATERIAL	SPEC.	LET. NO. REQ'D.	LET. NO. REQ'D.	LET. NO. REQ'D.	LET. NO. REQ'D.	LET. NO. REQ'D.
PARTS LIST PER ASSY.				-0	-2	-3	-4	-8

A-8								
PARTS ARSNG	AP							
HEAT TREAT	FINISH							

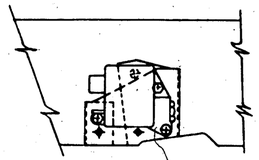
NAME CONTROLS INST. - ARM'T. - SMOKE TANK

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

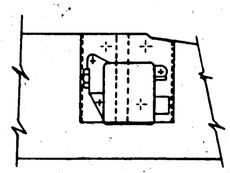
SIZE J — 28A2006 SHEET 2 OF 2

H 30

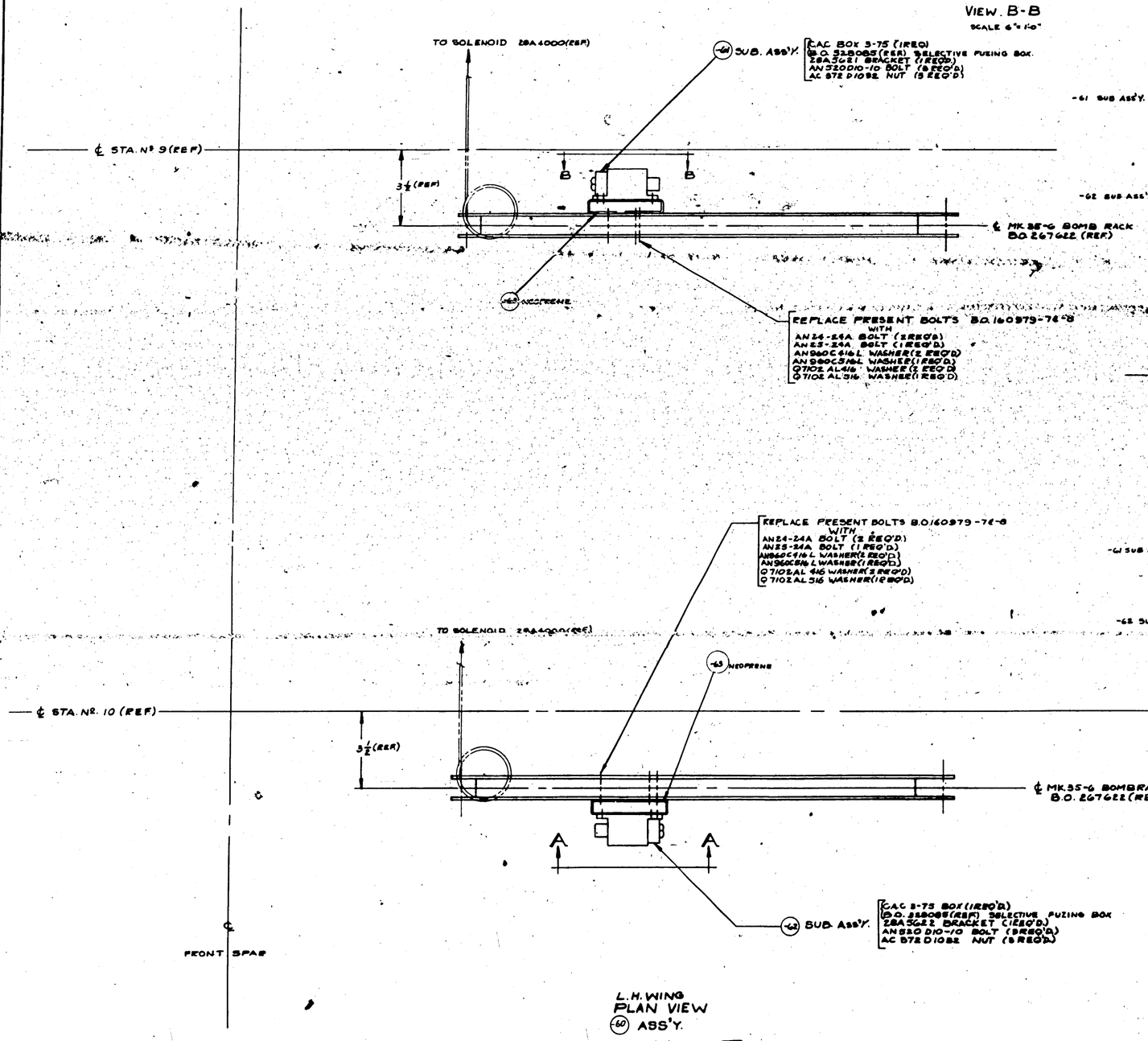
LET.	ALTERATION	DATE	BY	LET.	AUTHORITY	DATE	BY
				A	CREATED ON 2 SHTS		
				B	CHG'D TITLE FROM "BOMB EQUIP ARM'T-ARM'T BOMB RACK & EQUIPMENT TO-BOMB EQUIP-ARM'T WING"		



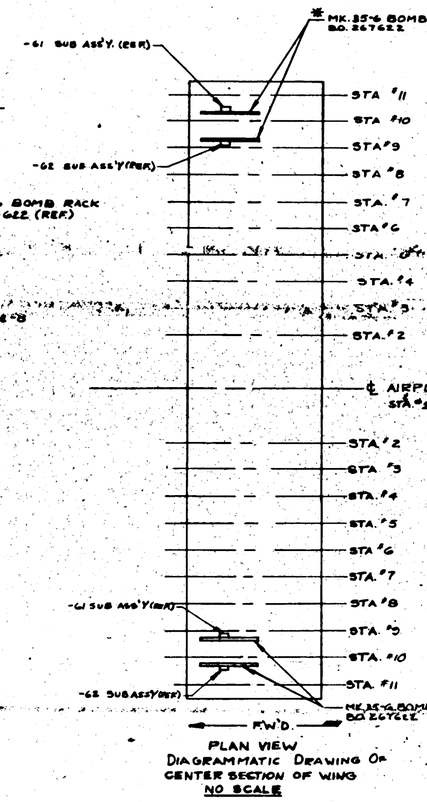
VIEW A-A
SCALE 6"=1'0"



VIEW B-B
SCALE 6"=1'0"



L.H. WING
PLAN VIEW
(60) ASS'Y.
F'W'D.



PLAN VIEW
DIAGRAMMATIC DRAWING OF CENTER SECTION OF WING
NO SCALE

SEE SHEET #1 FOR B.M.

*GOV. FURN. EQUIP.

H 31

PART NO.	STOCK	MATERIAL	SPEC.	LA	BR	LA	BR	LA	BR	LA	BR	LA	BR	LA	BR
				REQ.	REQ.	REQ.	REQ.	REQ.	REQ.	REQ.	REQ.	REQ.	REQ.	REQ.	REQ.
				-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5

PARTS LIST PER ASSY.

A.S														L.H.W.N	
NEXT														7-10-42	
NEXT THRU				FINISH										DRAFT	CHECK

NAME: BOMB EQUIP ARM'T - WING

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

DWG.	GRP.	NAME	DWG. NO.
	J		28A2010

SUPPLIER'S EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
W	TRACED TO DATE	7-1-42	
X	AN23-12 REQ'D ON 30 ASSY. WAS AN23-15 REQ'D (SEE SHT 31)	7-15-42	
Y	REMOVED PBY-4 REQ. FOR 28A3028-6. ADDED 28A3028-16.	8-21-42	

C.A. 7707

SECTION A-A
SCALE FULL SIZE

DETAIL "C"
SHOWING PULLEY CUTOUT, ETC.
SCALE FULL SIZE

DETAIL "E" (E7)
SCALE FULL SIZE

SECTION B-B
SCALE FULL SIZE (B9, B6)

DETAIL "D" (D6)
SHOWING PULLEY CUTOUT ETC.
SCALE FULL SIZE

PLAN VIEW
(HOIST ATTACHMENT NOT SHOWN)
SCALE ½ SIZE

L.H. SIDE VIEW
SCALE ½ SIZE

FRONT VIEW
(RELEASE PULLEY & CABLE NOT SHOWN)
SCALE ½ SIZE

GENERAL NOTES:-
1. ALL RIVETS ARE AN 442-D6 UNLESS OTHERWISE SPECIFIED
2. MINIMUM EDGE DISTANCE OF RIVET 6/16
3. MATERIAL SPECS.
   ALCLAD SHEET 2S3 SPEC. 4700
   AL ALLOY EXTRUSION 24ST SPEC. 4 GA 3
   AL ALLOY SHEET 17ST SPEC. 4 GA 5, AL ALLOY SHT 24ST SPEC. 4 GA 10
   ANGLE
   DASH (1) 24 ST AND ARE AFTER RIVETING.
5. AT TURNBUCKLES & SOLENOIDS THE FITTINGS MUST HAVE A MINIMUM OF ½ OF THREADS ENGAGED IN THE TURNBUCKLE BARREL.

NOTE:- REMOVE B.O. 160373-6 FROM L.H. RACK
REMOVE B.O. 160373-11 FROM R.H. RACK
AND ELIMINATE THOSE PARTS TO HAVE STOCK USE BOLTS, NUTS, SPACERS ETC. FURNISHED WITH RACKS FOR INSTALLATION OF
28A3006 & 28A3006-1
28A3004 (OUTBOARD) BRACKETS
28A3006-1 INBOARD
28F2106 PULLEY (2 REQ'D/RACK)
28A3005 PULLEY (2 REQ'D/RACK)
2340/3 BRACKET (2 REQ'D/RACK).
2 SA425 PIN (2 REQ'D/RACK) FROM BY PLACE
AN 6-18 BOLT (2 REQ'D/RACK)
AN 320-6 NUT (2 REQ'D/RACK)
AN 960-616 WASHER (2 REQ'D/RACK)
AN 380-2-2 COTTER (2 REQ'D/RACK)

NOTE:- FOR DETAILS OF 30-6 ASSEMS. SEE SHT 2-31

FINISH CODE

Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

NAME RACK ASSY MK XIII TORP-SHEET No 1 OF 2

DWG NO 28A3002

H 32

LET	ALTERATION	DATE	BY
B	TRACED TO DATE	7-17-39	
C	CHANGED ASSY AT SECT P-P ON PORT RACK & MADE STBD. OPP. ADDED NOTE ON TYPE OF RIVETS, ETC. ADDED SECTION H-H	7-26-39	
D		7-28-39	

SUPPLIES & EQUIPMENT CLASSIFICATION

C.O. 7107

PRINTS (1/16 SCALE) 28A4540

LOCATE BRACKET (28A4003 REF) SO THAT PULLEY IS PARALLEL TO & IN CENTER OF SLOT & SO THAT PULLEY CLEARS FORWARD END OF SLOT BY $\frac{1}{32}$ +1/64 -0

℄ OF PULLEY

FORWARD

28A4003 BRACKET
28A4003R BRACKET

AN520 D10-12 SCREW
Q610 D6-13.5 SPACER
AC365 D1032 NUT
(TIGHTEN SCREW SO THAT SPACER CLEARS PULLEY BY MAX 3/64)

AN442 D4 RIVET

AN210-2A PULLEY (LIGHT DUTY)
AN3-6 BOLT
AN310-3 NUT
AN380-2-2 COTTER
Q7102A10 WASHER

SECTION H-H
SCALE 12"-1'-0"

1/16 R MAX.

1/2

1/2" (REF)

UPPER EDGE OF BOMB RACK

DETAIL "G"
SCALE 12"-1'-0"

28A3003-10 CABLE

28A4002-6 BRACKET
28A4002-6R BRACKET
28A4002-5 BRACKET
28A4002-5R BRACKET

$10\frac{5}{16}$

AN23-11 BOLT
AN320-3 NUT
AN380-2-2 COTTER

$3\frac{1}{2}$ ±.010

Q7102-10 WASHER
AN210-2A PULLEY (LIGHT DUTY)
AN3-6 BOLT
AN310-3 NUT
AN380-2-2 COTTER

AN4-13 BOLT
AN310-4 NUT
AN380-2-2 COTTER
Q7102A416 WASHER

AN520 D10-12 SCREW
Q610 D6-13.5 SPACER
AC365 D1032 NUT

LOCATE BRACKET (28A4003 REF) SO THAT PULLEY IS PARALLEL TO AND IN CENTER OF SLOT AND SO THAT PULLEY CLEARS AFT END OF SLOT BY $\frac{1}{32}$ +1/64 -0

28A4003 BRACKET
28A4003R BRACKET
AN442 D4 RIVET

AFT

2" REF.

$\frac{25}{32}$ $\frac{23}{32}$

SEE DETAIL G FOR SLOT DIMENSIONS AND RIVET LOCATIONS

$1\frac{11}{32}$

SECTION I-I
SCALE 12"-1'-0"

AN3-6 BOLT
AN320-3 NUT
AN380-2-2 COTTER

ASSY ON PORT RACK SHOWN - STBD RACK OPPOSITE

SECTION F-F
SCALE 12"-1'-0"

28A3003-10 CABLE
AN23-11 BOLT
AN320-3 NUT
AN380-2-2 COTTER

$3\frac{1}{2}$ ±.010

$10\frac{5}{16}$

28A4002-5 BRACKET
28A4002-5R BRACKET
28A4002-6 BRACKET
28A4002-6R BRACKET

PLAN VIEW
SCALE 6"-1'-0"

SOLENOID MK XIII (GOVT. FURNISHED) "11231-E (FAIRCHILD AERIAL CAMERA CORP) OR MK XVIII SOLENOID (GOVT FURNISHED)" 60616 I8

5/8

FRONT VIEW
SCALE 6"-1'-0"

AN442 D6 RIVET
DRIVE 4 LOWER RIVETS WITH FLUSH HEADS NEXT TO BOMB RACKS - SEE SEC J-J
(D) ON 2 UPPER RIVETS FLUSH BOTH SIDES - SEE SEC. K-K

SEE DETAIL "G" FOR PULLEY MOUNTING

BOMB RACK

SECTION J-J
SCALE 12"-1'-0"

(32) (33) (34) (35) WEB - SAME AS -11, -12, -13, & -14 RESPECTIVELY EXCEPT FOR SOLENOID PULLEY BRACKET SLOTS & RIVET LOCATIONS

(30) L.H. TORPEDO RACK ASSEM.
(31) R.H. TORPEDO RACK ASSEM.

SIDE VIEW
SCALE 6"-1'-0"

NOTE -
FOR BILL OF MATERIAL SEE SHEET "1

SECTION K-K
FULL SCALE

H 33

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
D	TORQUE	1/21/43	
E-A	ANTATION ADDED	12-2-43	

E.O. 19653

REAR SPAR

NO 1FT CONNECTION 9/8 WITH 28F3054

E/8

AN173-5 BOLT
Q710 WASHER
AC395-C5T-8 L.K. NUTS

28F3054
28F3054-1 FITTING

EYE BOLT MUST BE FREE TO ROTATE

ANTENNA SPRING
AN510-10-7 SCREW
AC365-1032 NUT

28F2117 PNY
AN515-6-5 SCREW
AC365-632L NUT

NOTE:-
ASSEMBLE SPRING 28F2118 & PNY 28F2117 ON OUTBD FITTING BOTH PORT & STARBD SIDES OF SHIP

TORPEDO STRUTTING LINK (REAR) (GOVT. FURNISHED)

TO STA #8

11½ (REF)

TORPEDO

11½ (REF)

STA #7

1 23/32

E/8 — 1 1/8 — 2 1/16 — 0 — E/8

AN4-16 BOLT
AN310-4 NUT
AN380-2-2 COTTER
Q710 B4% WASHER
INSTALL BOLTS LOOSE FOR FREE OPERATION

28F3046 BUSHING

QC411-3 SPRING OR (28F2089) 28F3103 - SPRING - PBY-5 ONLY (E)

QC1006-6 SPACER

AN42-16 EYE BOLT
AN320-3 NUT
AN380-2-2 COTTER

28F3047 ROD
AC365-1032 NUT
AN380-2-2 COTTER

28F3053 TUBE

28F3052 BLOCK
AN3-22 BOLT
AN320-3 NUT
AN380-2-2 COTTER
AC340-D8K WASHER

NOTE:-
1. THIS ASSEMBLY IS LOCATED OUTB'D OF ℄ TORP ON PORT SIDE & INB'D OF ℄ TORP ON STARBD SIDE.
2. L.H. & R.H. INSTALLATIONS ARE IDENTICAL EXCEPT AS INDICATED BY NOTE REGARDING INST. OF 28F2118 & 28F2117

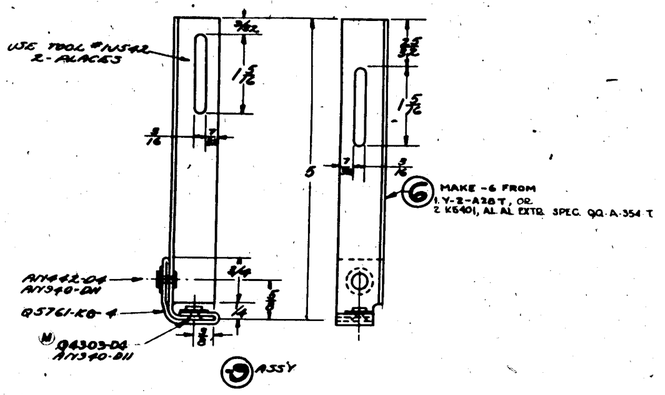
H 34

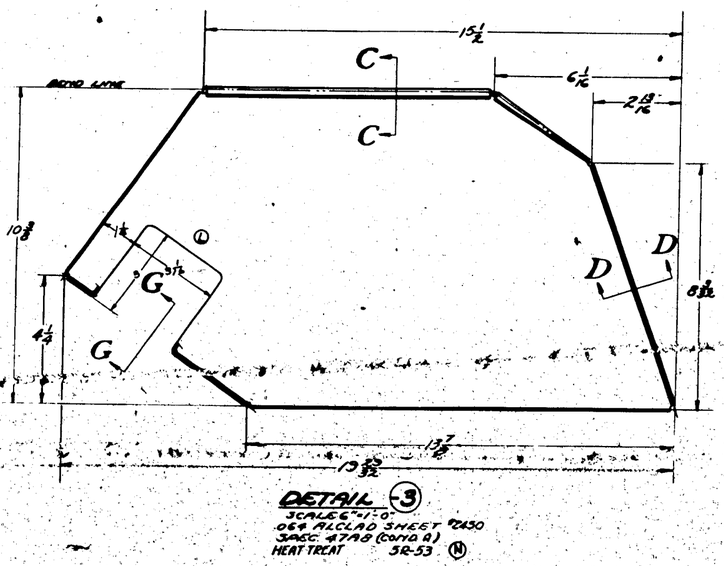
CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF

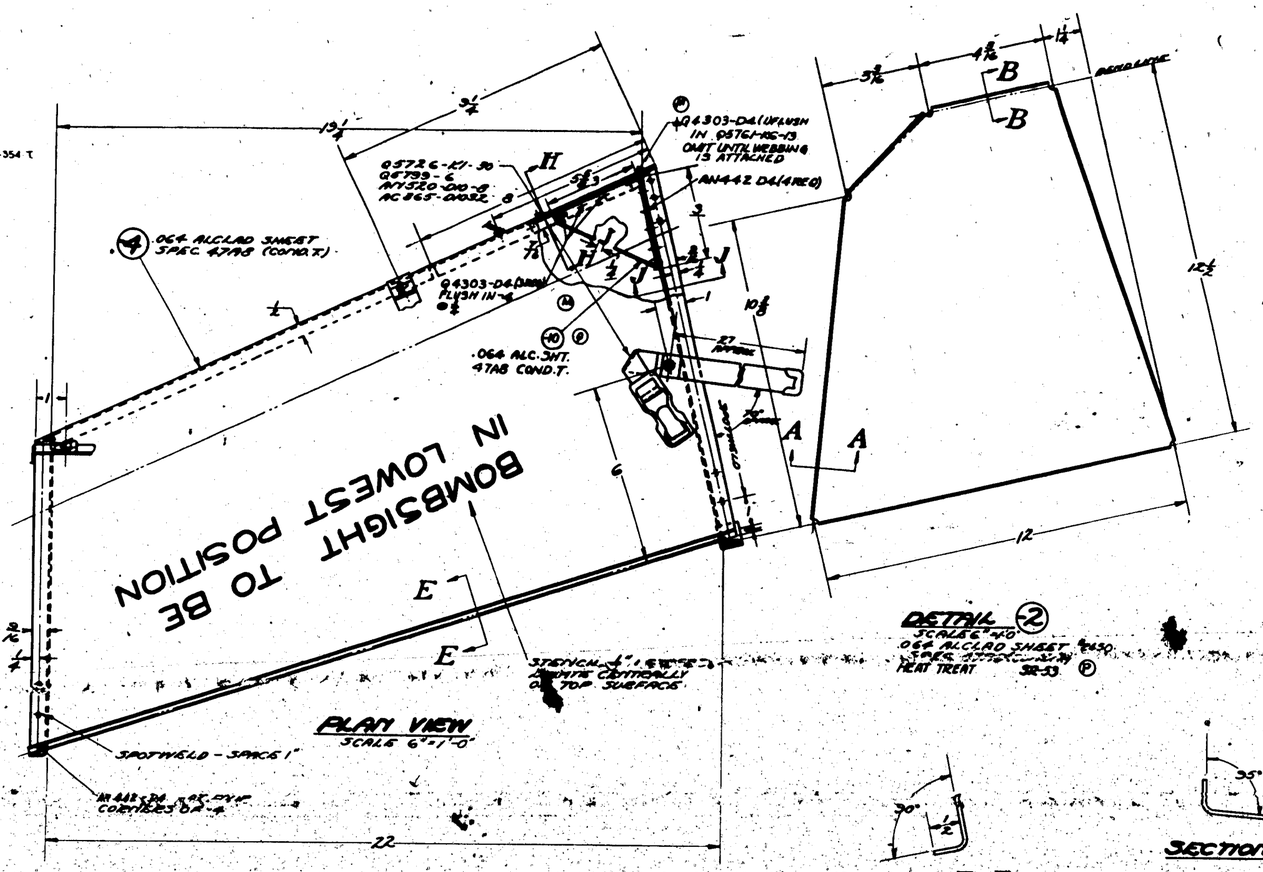
NAME STOP INST.-ANT TORP PROPELLER

SIZE J

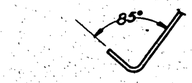
28A5011







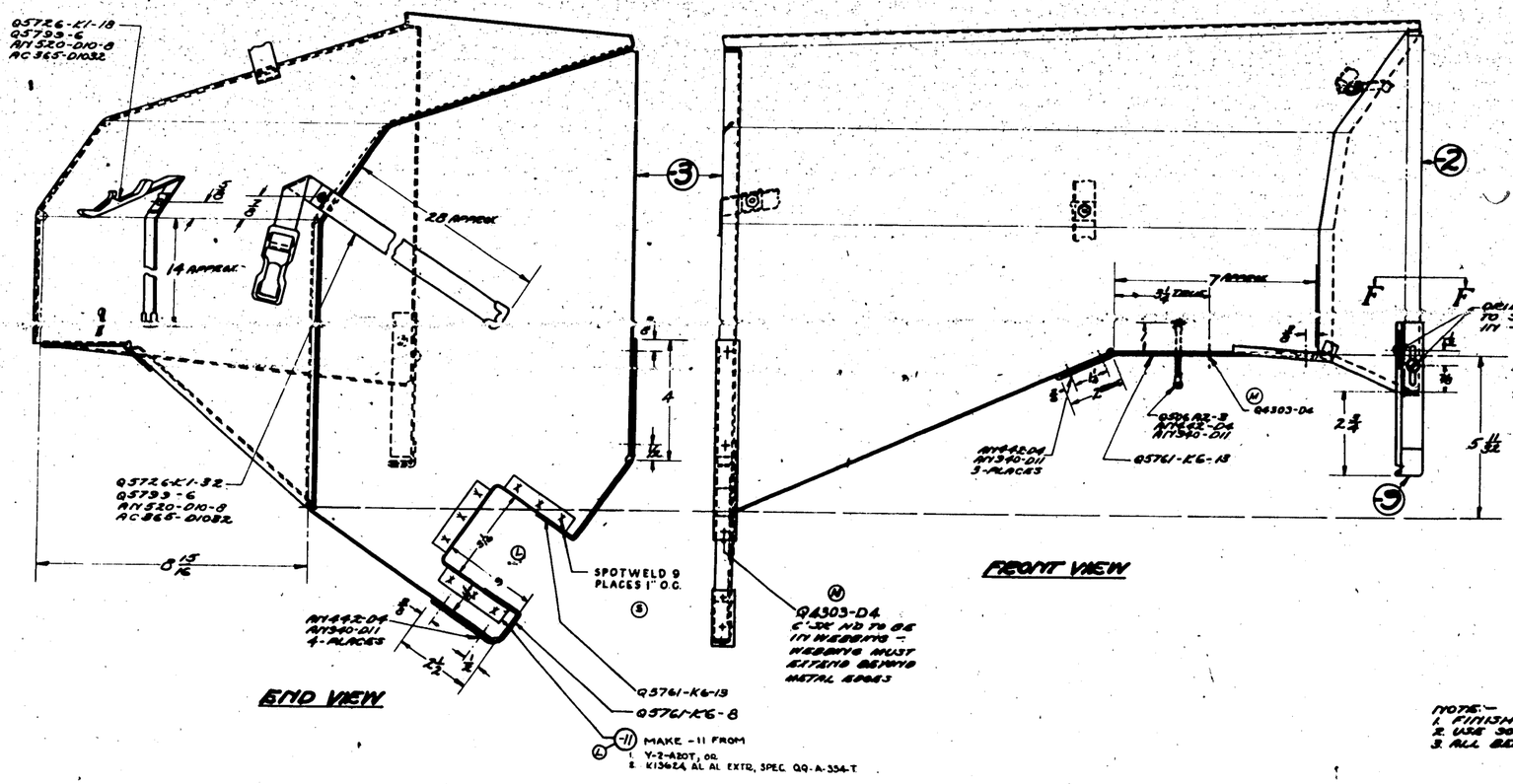
LET	ALTERATION	DATE	BY
	SUPPLIES & EQUIPMENT CLASSIFICATION		
K	TRACED TO DATE	4-9-43	
L	REVISED SEE SHT. ADDED -11	4-15-43	
M	DETAIL 6, 12, 13 & ALL REVISIONS ADDED -10, SECTIONS F-F & J-J, RIVET INFOS. CHGD AN426D4 TO Q4303-D4 AT 9 ON DWG & D/W	4-23-43	
N	ADDED HT. TREA. CHGS Q4303 (COND A) WAS 2437 SPOTWLD IN-3 ON DWG	6-1-43	
P	ADDED NOTE SEE 6, CH'GD COND'T TO T- IN -2 ON DWG	6-24-43	
Q	REMOVED NOTE "PBVS ONLY" FROM -10 ON FACE & 4/M	8-27-43	
R	ON FACE OF DWG. SCALE A-2 REPLACED BOM. SIGHT PER -8. "9/32 x 3/4 x 1 1/16 AL. ALLOY EXTR. SHAT DIE "K5401, SPEC. QQ-A-200/2." WITH "PROPR. -8 FROM Y-2-A32T." ON FACE OF DWG. ZONE E-1 REPLACED BOM. SIGHT PER -11 "9/32 x 3/4 x 1 1/16 AL. ALL. EXT. ANGLE DIE "K13824 (SPEC. QQ-A-200/2 COND T)" WITH "MAKE -11 FROM Y-2-A32T."	9-22-43	
S	"SPOTWLD 9 PLACES I O.C." WAS "AN442-D4 9 PLACES" W.T. CH & NEG	9-30-43	
T	TO FACE AT CALL OUT FOR -6 ADDED "OR K6401, AL AL EXTR. SPEC. QQ-A-354-T" AT -11 CALL OUT ADDED "OR K13824, AL AL EXTR. SPEC. QQ-A-354-T." NO WT. CHG.	10-16-43	

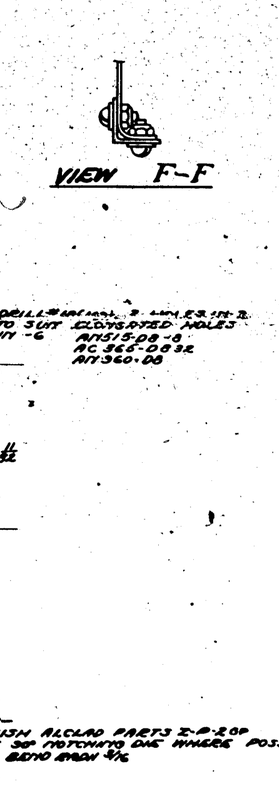


SECTION G-G

SECTION E-E

SECTION A-A

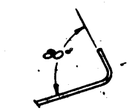




VIEW F-F

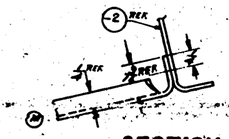
SECTION B-B

SECTION C-C



SECTION D-D

SECTION H-H



SECTION J-J

NOTE:—
1. FINISH ALCLAD PARTS 2-P-20P
2. USE 36° NOTCHING DIE WHERE POSSIBLE
3. ALL BEND RADII 4/16

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
C	TABLE TO DATE	4-15-42	
C	CLIP 28F3138 ADDED AND 2 AN442-D8 RIVETS	6-8-42	
D	REMOVED 28F3138, AN442D8 & NOTE "RIVETS ON ASSY R.H. SIDE OF BOMBERS WINDOW FRAME ONLY" NEG WT. CHG.	6-9-42	
E	CREATED -2 ASSY. W.T.S. 12	4-8-43	

E.O. 15819

E CLASSIFICATION MARK 10-8

8 CHANGES

℄ TURRET

28F3103 STRAP ANCHOR ATTACH TO BRACKET WITH EXISTING BOLT

BOMBS RELEASE PULLEY BRACKET 28F137-1 (REF.)

BOMBER'S KNEE PAD (REF.)

℄ SYMM

BOMBER'S WINDOW (REF.)

MK II BOMBSIGHT (REF.)

28F3114 CLIP DRILL #28 (.1405) THRU STRINGER AN515D6-9 AC-365D632 LOCATE ON ASSEMBLY

CONDUIT TO BOMBER'S SWITCH PANEL (REF.)

STRINGER 28B1000-170 (REF.)

PLAN VIEW

FLANGE RESTS ON BOMBSIGHT SUPPORT

BOMBSIGHT COVER 28A3013 (FOR -0 ASSY ONLY) E
28A3156 (FOR -2 ASSY ONLY) E

ATTACH BONDING OF COVER TO SCREW ON SUPPORT CASTING

MOLDED SUPPORT RESTS ON BOTTOM OF HULL

Ⓓ Ⓒ

COVER DESIGNED FOR BOMBSIGHT IN LOWEST POSITION ON TRACK

℄ B.P. 533

L.H. SIDE VIEW

H 36

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
A	INCORPORATED SUB ASSY -13L&R -14L&R	5-15-39	
B.	REVERSED POSITION OF -12 ANGLE & INTERCHANGED -12L WITH -12R. REVERSED CLIPS	6-14-39	

CQ 8087
EO 21440

15 7/8 APPROX

34 5/16 APPROX

4 1/4
3 1/16
4 3/8
2 3/4
2 3/16
45°
3/8
6 1/8
BEFORE ATTACHING RACK SUPPORTS TO BULKHEAD STRUCTURE CHECK INSTALL WITH AMM. MAGAZINE IN PLACE.

VIEW A-A

4 1/4
1 1/8
4 3/8
64°
30°
7 1/2
BEFORE ATTACHING RACK SUPPORTS TO BULKHD STRUCTURE CHECK INSTALL. WITH AMM. MAGAZINES IN PLACE.

VIEW B-B

A
B
C

BF 3025-2 RACK INSTALL RACKS ON R.H. SIDE IN SAME POSITION (REF)

CLEAR RIVETS SPACE 7 1/4 APPROX

(15) F.H. SIDE
(12) L.H. SIDE
(8)

30 1/4
17 1/4 REF

BULKHEAD #7 (REF). VIEW LOOKING AFT

MATERIAL -

3/4 x 3/4 x 1/16 PLAIN ANGLE AL ALLOY (24ST) SPEC 46A9 COND T DIE = K-5401 -6, -7L, -7R, -9L, -9R, -11L, -11R

1 1/4 x .070 PLAIN ANGLE AL ALLOY (24ST) SPEC 46A9 COND T DIE = 1288 -10, -12L, -12R

.045, SHEET AL ALLOY (24ST) SPEC. 47A10 COND T -8

ALL RIVETS AN 442-D4 UNLESS OTHERWISE SPECIFIED

FINISH ALL PARTS Z-P-AL

DRILL 2 HOLES
DRILL #10 (193)
3/16
13/32
7/32
3/8
3/4

DETAIL OF -6 FULL SCALE

AN520-10-7 SCREW
AC365-1032 NUT
Q7102A10 2 REQ PER SCREW

REVERSED R.H. SIDE ONLY

SYMM. ABOUT ℄ EXCEPT AS NOTED

K-1288 SPEC. 46A9 COND T

SECTION C-C

* SO. #930-37 CONTRACT CHANGE "U" PLANES #1241-#1243 (29-31)

(USE EXISTING RACKS)

SUB ASSY -12R: -5R, -8, -6
SUB ASSY -14L: -9L, -8, -6
SUB ASSY -13R: -8, -7R, -6
SUB ASSY -13L: -8, -7L, -6

AN442-D4
AN102-8 REQ'D
AC365-6032
AN520-10-7

| | | |

LET	ALTERATION	DATE	BY
A	REVISED ASSEMBLY +	6-25-43	[illegible]
B	REPLACED RIVETS WITH SCREWS IN -3 & -4 ASSEMBLIES	1-24-44	[illegible]
C	ADDED -11 & -11R	8-30-44	[illegible]
D	ADDED -12 ASSEM FOR PBY-5	9-11-44	[illegible]
E	ADDED F6 TO DWG TO -9	10/20/44	[illegible]
F	-9 ASSY. WAS -15 FOR PBY-5A REMOVED NOTE "PBY-5 ONLY"	11-4-44	[illegible]
G	-5 WAS -5L & -12 WAS -5R	11/20/44	[illegible]

E.O. 19963
E.O. 19429
FO 70649

SECTION D—D

AN442-D4
AN442-D6
AN520-10-7 SCREW
AC365-1032 NUT
Q7102-D10 2 REQ PER SCREW
G -5 -12 K5401
AN520-10-8 SCREW
33⅜

© -11 -11R

6* 5/16 5/16 2 1/4 1/4

PBY-4 ONLY (REF)

AN442-D4 SPACING 1½ APPROX. PICK UP RIVETS ON SKIN SPLICE

AN442-D4

-9

28 7/8 E

A B C D

28F3025-3 ASSEM Ⓐ

AN520-10-7 AC365-1032 4 PLACES

F 8L 8R*

10 3/16 APPROX.

120°

7 IDENTICAL WITH -6 EXCEPT ANGLE OF BEND

AN442-D4

VIEW A-A

28A4053-13R L.H. SIDE
28A4053-13L R.H. SIDE

28A4053-10

AN442D4

28A4053-14R L.H. SIDE
28A4053-14L R.H. SIDE

VIEW C-C

BULKHEAD #6 (REF) VIEW LOOKING FORWARD

SYMM. ABOUT ℄ EXCEPT AS NOTED

5 1/8 2L 2R 2 3/4 1/4 3/4 3/4 3/4 1 3 4 45° 3/4 5/16 5 5/8 5/16 2 7/16 7 5/16 4R 4L

VIEW B-B

MATERIAL—

3/4 X 3/4 X 1/16 PLAIN ANGLE AL. ALLOY (24 ST)
SPEC. 46A9 COND. T DIE # K-5401 -2, -2R, -4L, -4R, -5L, -5R

1 X 3/4 X .070 PLAIN ANGLE AL. ALLOY (24 ST)
SPEC. 46A9 COND. T DIE # 1288
-8L, -8R, -9, -11, -11R

.064 SHEET AL. ALLOY (24 ST)
SPEC. 47A10 COND. T
-3, -6, -7

FINISH ALL PARTS Z-P-AL

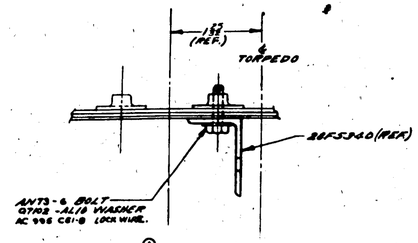
* PLANES #1241-1243 (29-31)
S.O. #930-37
CONTRACT CHANGE "U"

AN442 -D6
AN442 -D4
Q7102-D10 2R
AC365-1032 20
AN520-10-8 2
AN520-10-7 18
28A4053-10 4
28A4053-13L 1
-13R 1
28A4053-14L 1
28F3025-3 1
28A4053-7 1
28A4053-11L 1
28A4053-11R 1
28A4053-4 1
-5 1
-6 1
-12 1
-8L 1
-8R 1
-9 1
-11 1
-11R 1

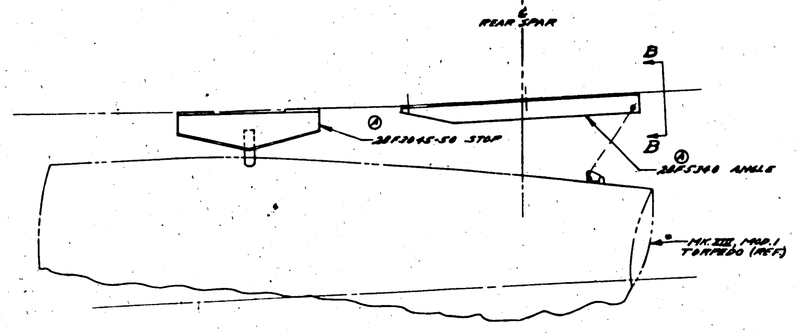
| | | |

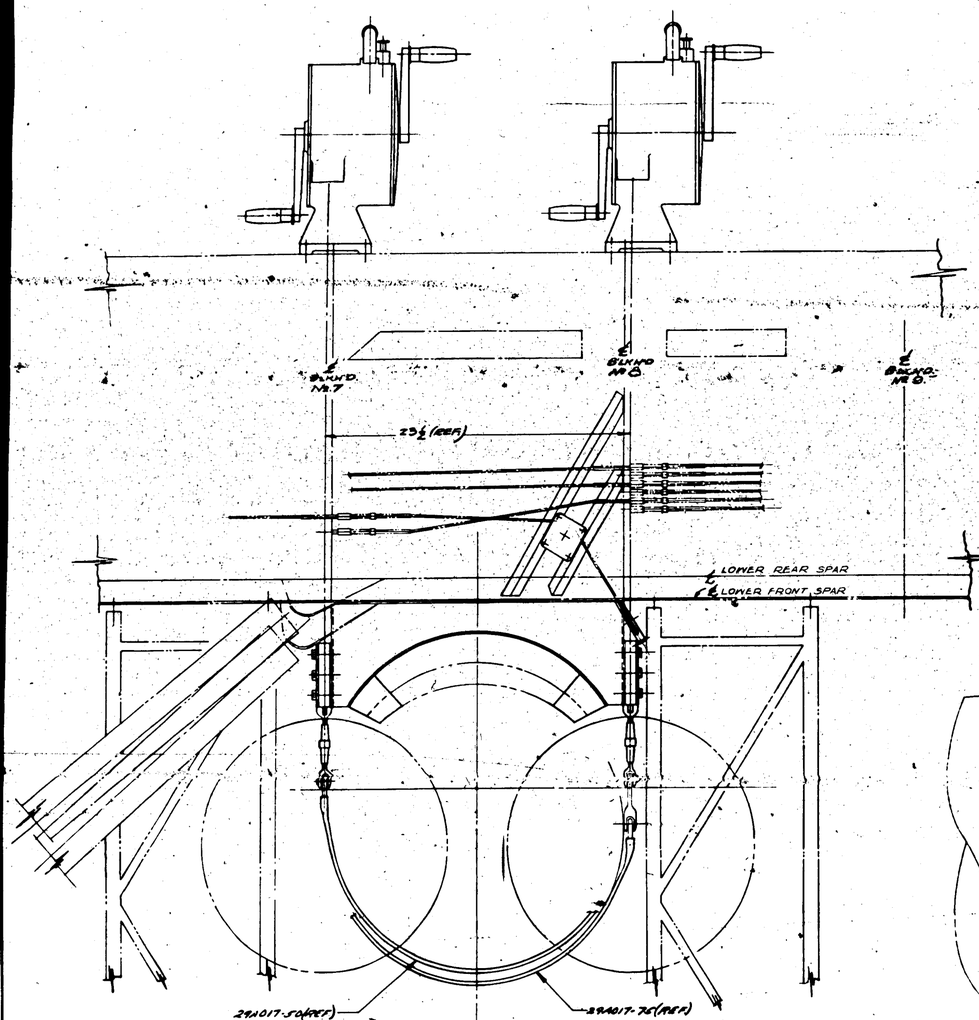
LET	ALTERATIONS	DATE	BY
A	FROM FACE OF DWG ELIMINATED 28A5012A5011 ADDED 28A5225-51 & -53		
	DWG 28A10A4925-C51 -52 28A3008-22 -23 WAS 28A3008-1 & -2 ADDED 28A3008-1 & -2 ADDED -905 -75 WAS 28A917 28A5045-49 WAS 28A5045 ADDED VIEW OF ANGLE INSTALLATION ADDED PARTS LIST		
B	ADDED 28A3011-1 & 28A3011-2 TO BILL ADDED NOTE 1 FURNISHED ON CONT 28A215.	8-2-41	
C	TN REQ AIRPLANE BLK LIMITATION C-704596-5835-CB-2 FOR PBY-4 & PBY-4 WAS C-704596-5035-68 FOR PBY-3-4-5C -5A ADDED LIMITATIONS C-704596 #11 & ON C-918176-41 & FOR PBY-5 C-704596-C-918176 FOR PBY-5A REMOVED PBY-5A 28A2187-3001 FOR NOS 1 & 2 ADDED INCL. PER CORT CHG "B" IN NOTE AT BILL "SO" 836-38-2-4 WAS "SO 836-16" NO WT CHG.	8-12-42	

INCORP. BUR. AERO. CHG. PBY-5 CHG. #54 & PBY-5A CHG. #42

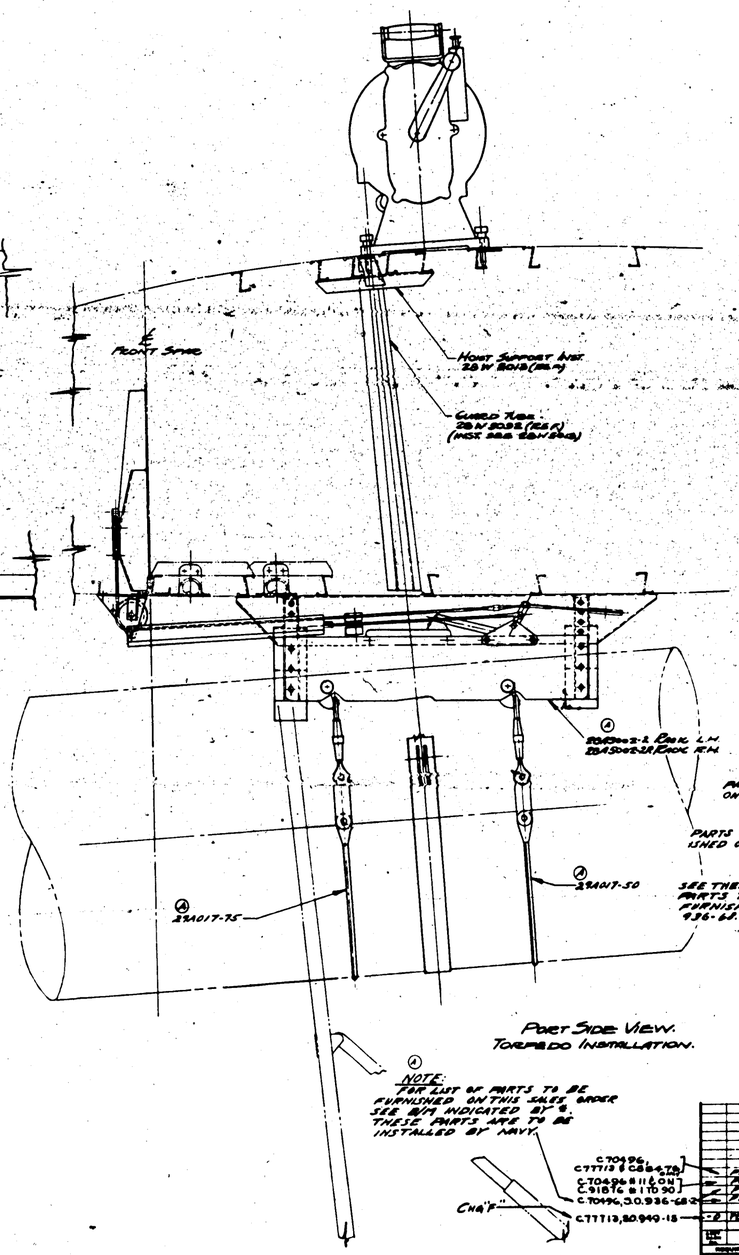


④ VIEW B-B
SCALE 12"=1'-0"





FRONT VIEW.
INSTALLATION OF TORPEDO PORT SIDE



PORT SIDE VIEW.
TORPEDO INSTALLATION.

④ NOTE:
FOR LIST OF PARTS TO BE FURNISHED ON THIS SALES ORDER SEE B/M INDICATED BY ④. THESE PARTS ARE TO BE INSTALLED BY NAVY.

ITEM NO.	NOMEN.	MATL. SPEC.
-2	PBY-5A	28A5001
	PBY-5	28A5001
	PBY-4	28A5001
	PBY-3	28A5001

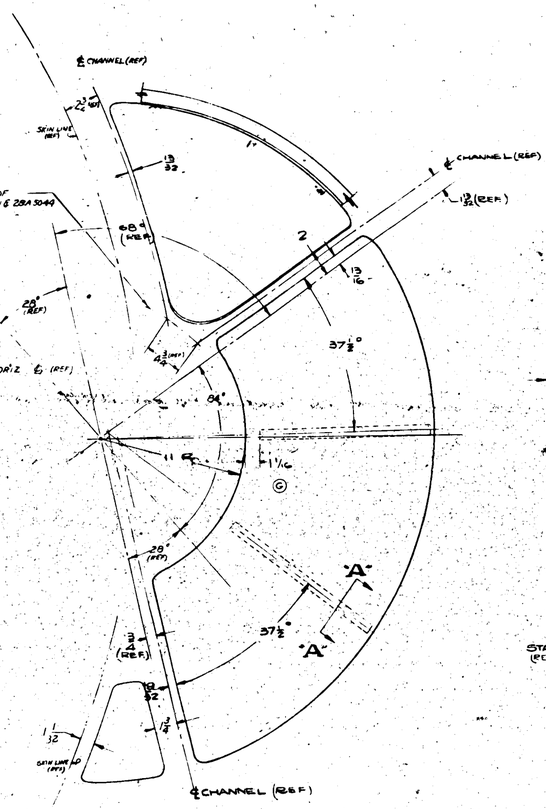
PART NO.	ORDER	MATERIAL	SPEC	-0	-1	-3	-4	-5
				PARTS LIST PER ASSY.				

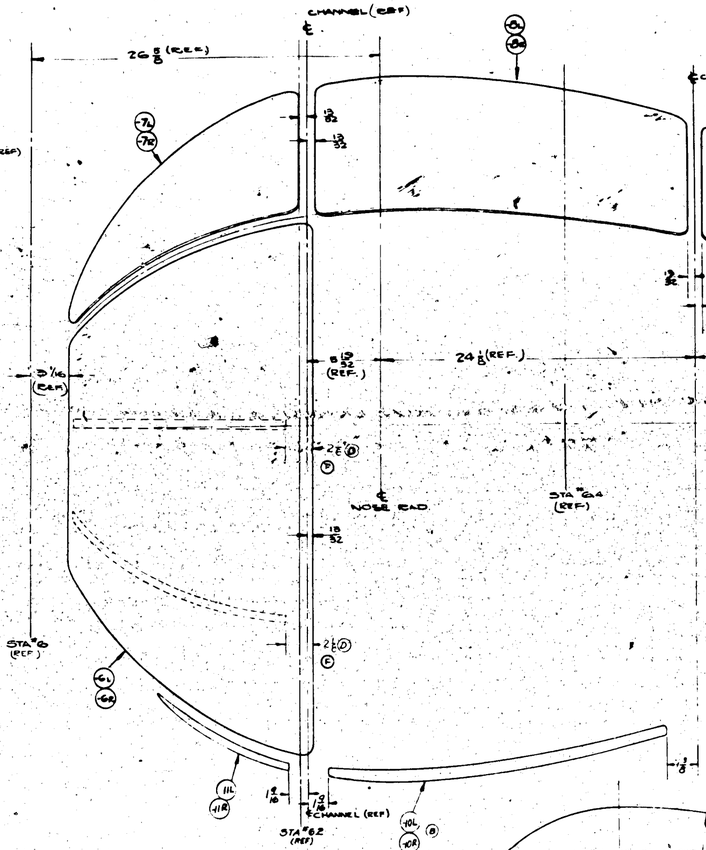
A-C				
WEIGHT				
HEAT TREAT	FINISH			

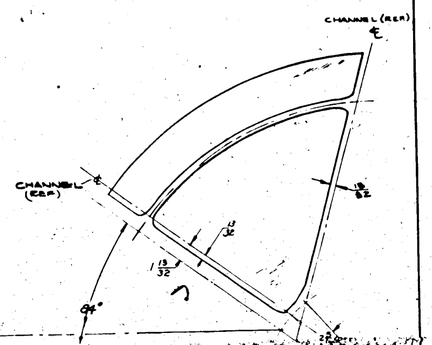
| | | | |

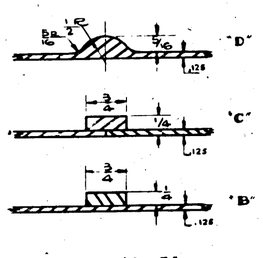
LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	ADDED DIM AT INTERSECTION OF LEFT HAND SIDE & "A"	6-22-44	[illegible]
B	ADDED "A" VISIBLE FROM "H" VIEW		
C	ADDED "A" AREAS PER DWG AND LETTER W-11565 DE 7-6-44		
D	1/16 DIM. WAS 1/8 ADDED 1/16 DIM.		
E	CHANGED THICKNESS OF ALL EXPOSED AREAS TO .118	9-8-45	
F	DIM. 2 3/16 (2 PLACES) WAS 1/16 W.T.CHG. NEG.	9-23-45	
G	DIM. 1/16 WAS 1/8 AS SHOWN ON DRAWING		

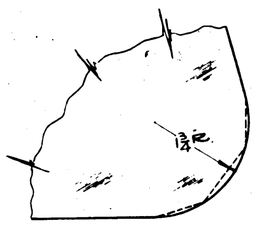






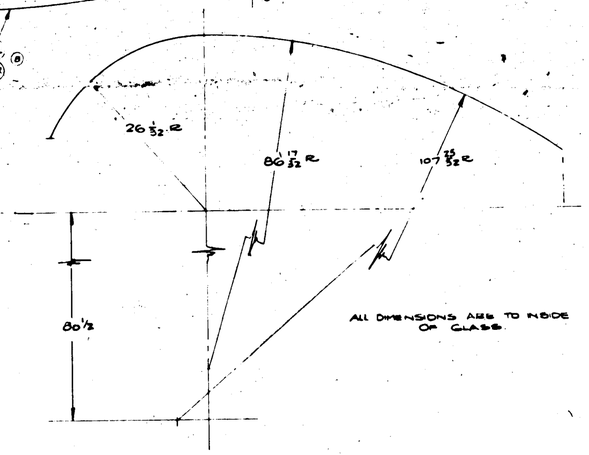


SECTION "A-A"
SHOWING RENE, STRIPS (-6 ONLY)
12"=1'0"



* TYPICAL CORNER.
12"=1'0"

SHARP CORNERS OPTIONAL



ALL DIMENSIONS ARE TO INSIDE OF GLASS.

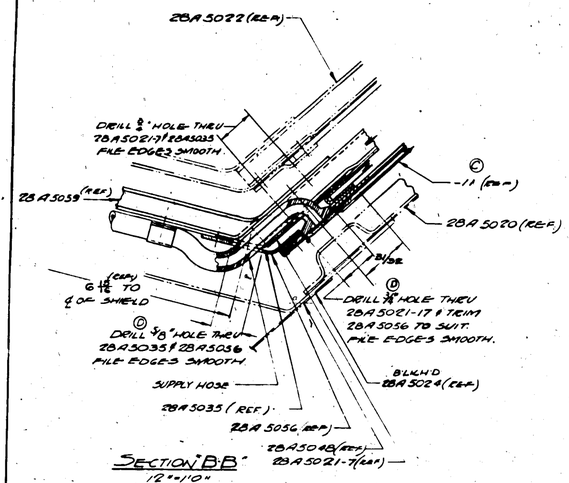
GENERAL NOTES

1. SECT. "A-A" - B OR "A-A" - D TO BE USED IF -6 IS FORMED OR MOLDED IN ONE PIECE.
2. SECT. "A-A" - C TO BE USED IF -6 IS FORMED IN SECTIONS
3. -6 TO BE ACRYLIC PLASTIC.
4. REF. DWG. OF A 28A5020
5. TEMPLATE TO BE FURNISHED FOR MAKING GLASS IF ORDERED ON OUTSIDE.

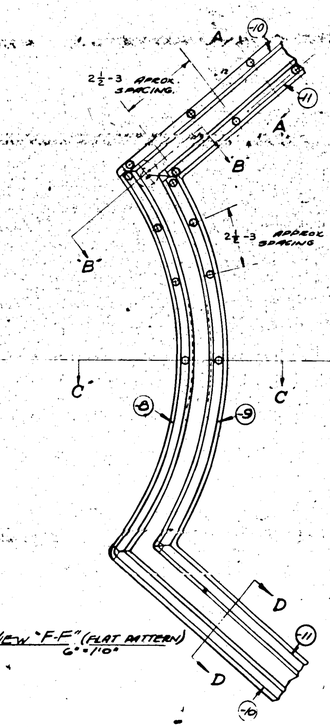
(B) LIMITS ± 1/8 FOR RADIAL DIM'S ± 1/16 FOR LINEAR DIMS

H 4.0

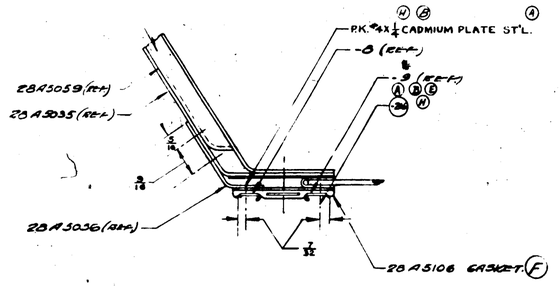
| | | |



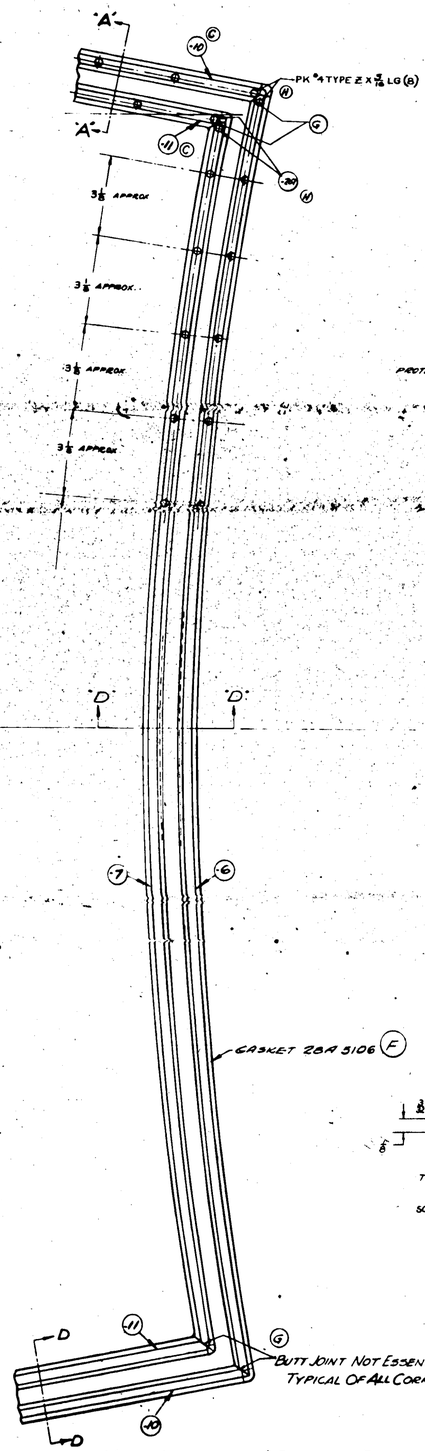
SECTION "B-B"
12"=1'0"



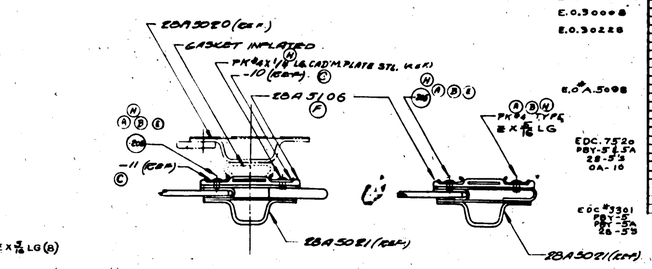
VIEW "F-F" (FLAT PATTERN)
6"=1'0"



SECTION "C-C"
12"=1'0"

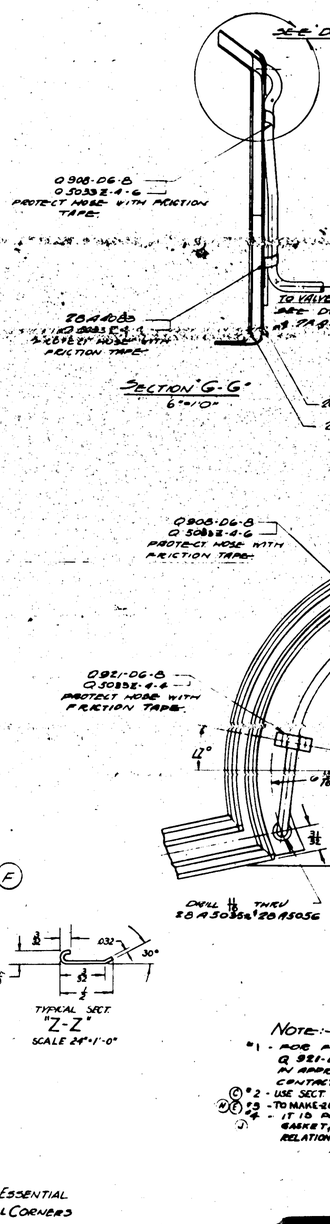


VIEW (FLAT PATTERN) OF VIEW OPPOSITE "F-F"
6"=1'0"

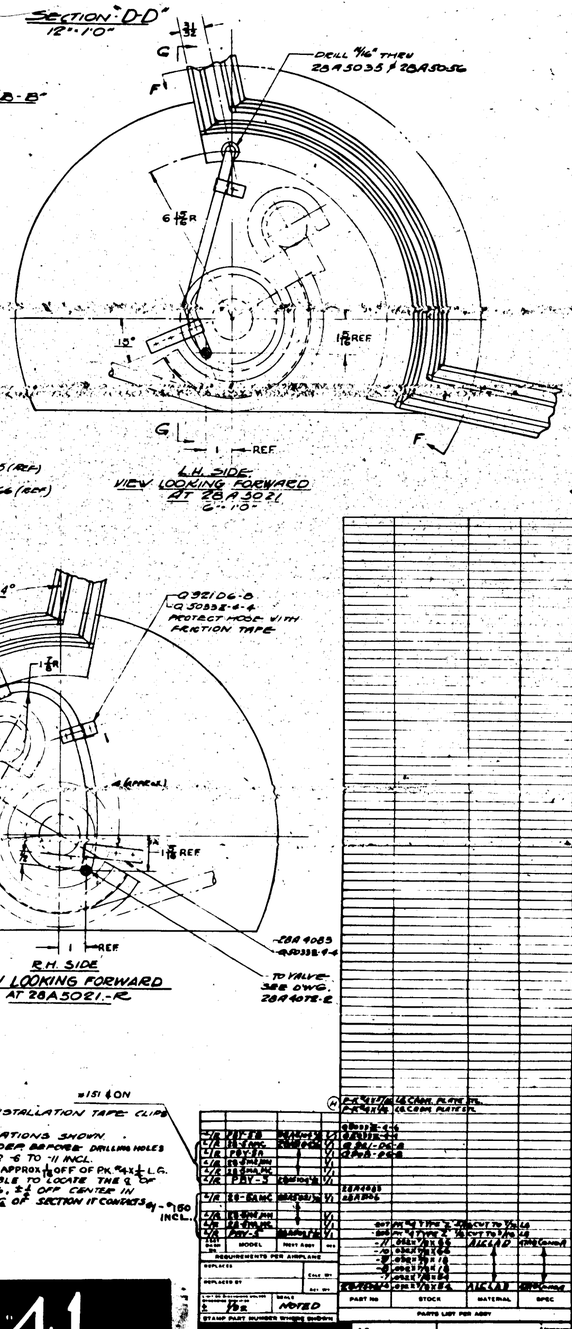


SECTION "A-A"
12"=1'0"

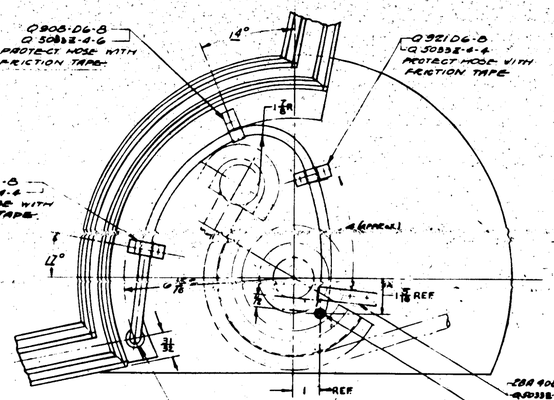
SECTION "D-D"
12"=1'0"



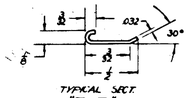
SECTION "G-G"
6"=1'0"



L.H. SIDE
VIEW LOOKING FORWARD AT 28A5021
6"=1'0"



R.H. SIDE
VIEW LOOKING FORWARD AT 28A5021-R



TYPICAL SECT. "Z-Z"
SCALE 24"=1'-0"

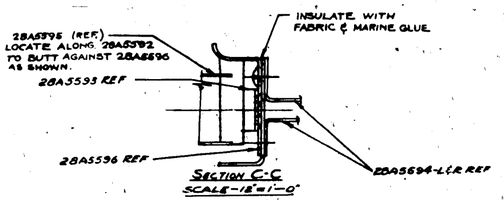
NOTE:-
- #1 - FOR FIRST INSTALLATION TAPE CLIPS Q 921-D6-B IN APPROX. LOCATIONS SHOWN. CONTACT ENG. DEP. BEFORE DRILLING HOLES
- #2 - USE SECT "Z-Z" FOR -6 TO -11 INCL.
- #3 - TO MAKE -206 & RIND APPROX 1/16 OFF OF PK 4 X 1/4 L.G. - IT IS POSSIBLE TO LOCATE THE ℄ OF GASKET, 28A5106, 2 1/2 OFF CENTER IN RELATION TO THE ℄ OF SECTION IT CONTACTS @ -150 INCL.

SET	ALTERATION	DATE	BY
A	CADMIUM PLATED STK WAS CORR RES IN STL	7-7-43	RALEE
B	PK -4 4 X 2 3/4 SCNW WAS PK -4 4 X 2 3/4 SCW	8-5-43	Mc Mills
C	-10 & -11 REPLACED -16 & -19 RESPECTIVELY	8-5-43	Mc Mills
D	5/8 HOLE WAS 11/16 HOLE 9/16 HOLE WAS 11/16 HOLE	10-12-43	Mac A.
E	ALL PK -4 4 X 2 3/4 LG & CNW NEXT TO GLASS CHGD TO -206 -ADDED NOTE #3 ON DWG. IN ZONE F-4 PK -4 4 X 2 3/4 LG SCNW CHGD FROM 160 TO 420 REQ ADD -206 (4-6-44)	4-7-44	Mac Mills
F	GASKET 28A4043 CHGD TO 28A5106	9-22-44	Mac Mills
G	CHGD PICTURE 4B CORNERS ON -6-7-8-9-10-11 ADD BUTT JOINT NOT ESSENTIAL TYPICAL OF ALL CORNERS	11-28-44	Mac Mills
H	RELEASED -206 (INSIDE RIND) WITH -206 (130) REPLACED -206 (INSIDE CORNERS) WITH -206 (8) REPLACE PK 4 4 X 2 3/4 (OUTSIDE RIM) WITH PK 4 4 X 1/4 LG (132) PK 4 4 X 2 3/4 (OUTSIDE RIM) REQ'S WITH PK 4 4 X 1/4 LG (132)	11-28-44 12-26-44	Mac Mills Mac Mills
J	ADDED NOTE #4 PAGE	8-22-45	Mac Mills

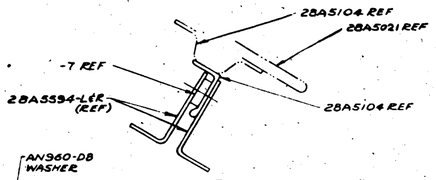
PART NO	STOCK	MATERIAL	SPEC
-1	28A5021	24ST	AN-A-20
-2	28A5021	24ST	AN-A-20
-3	28A5021	24ST	AN-A-20
-4	28A5021	24ST	AN-A-20
-5	28A5021	24ST	AN-A-20
-6	28A5021	24ST	AN-A-20
-7	28A5021	24ST	AN-A-20
-8	28A5021	24ST	AN-A-20
-9	28A5021	24ST	AN-A-20
-10	28A5021	24ST	AN-A-20
-11	28A5021	24ST	AN-A-20

PARTS LIST PER ASSY

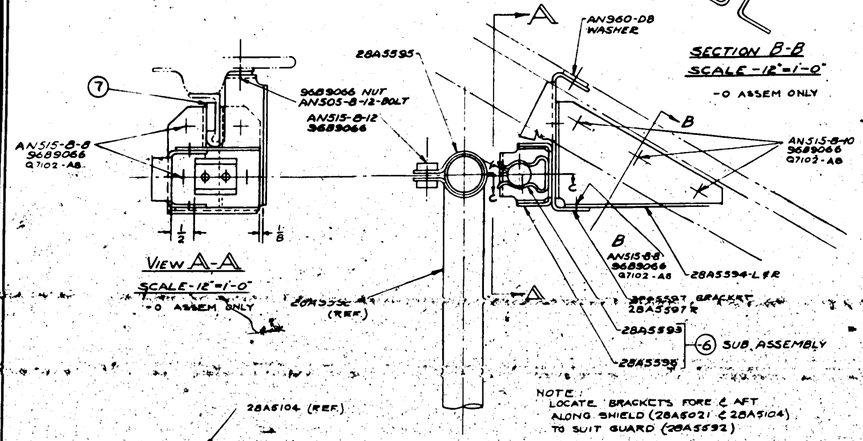
| | | |



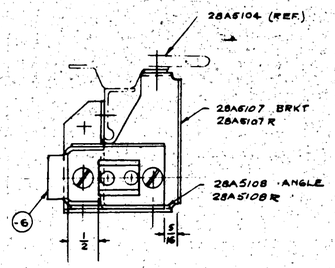
SECTION C-C
SCALE-12"=1'-0"



SECTION B-B
SCALE-12"=1'-0"
-0 ASSEM ONLY

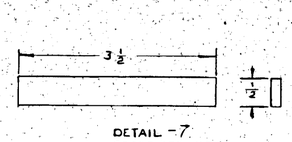


VIEW A-A
SCALE-12"=1'-0"
-0 ASSEM ONLY

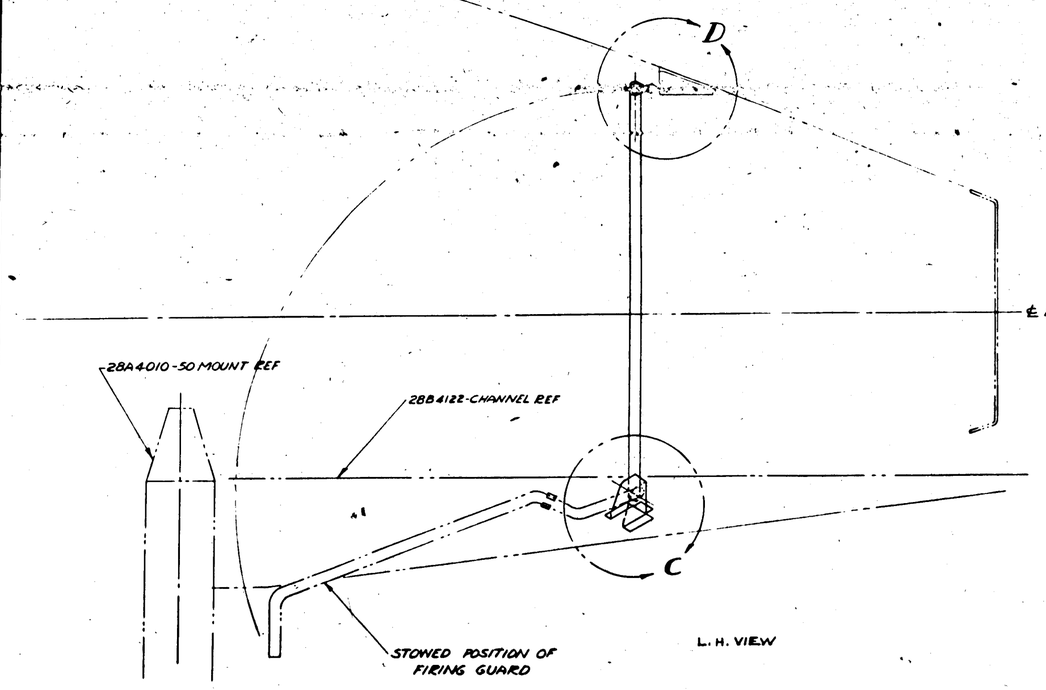


VIEW A-A
12"=1'-0"
-2 ASSEM ONLY.

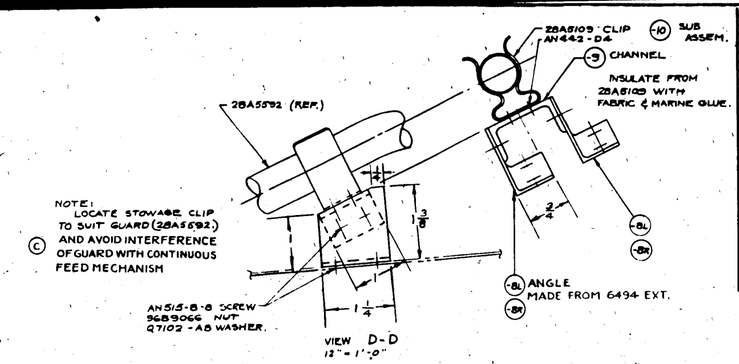
DETAIL-D
SCALE-12"=1'-0"



DETAIL -7
SCALE 12"=1'0



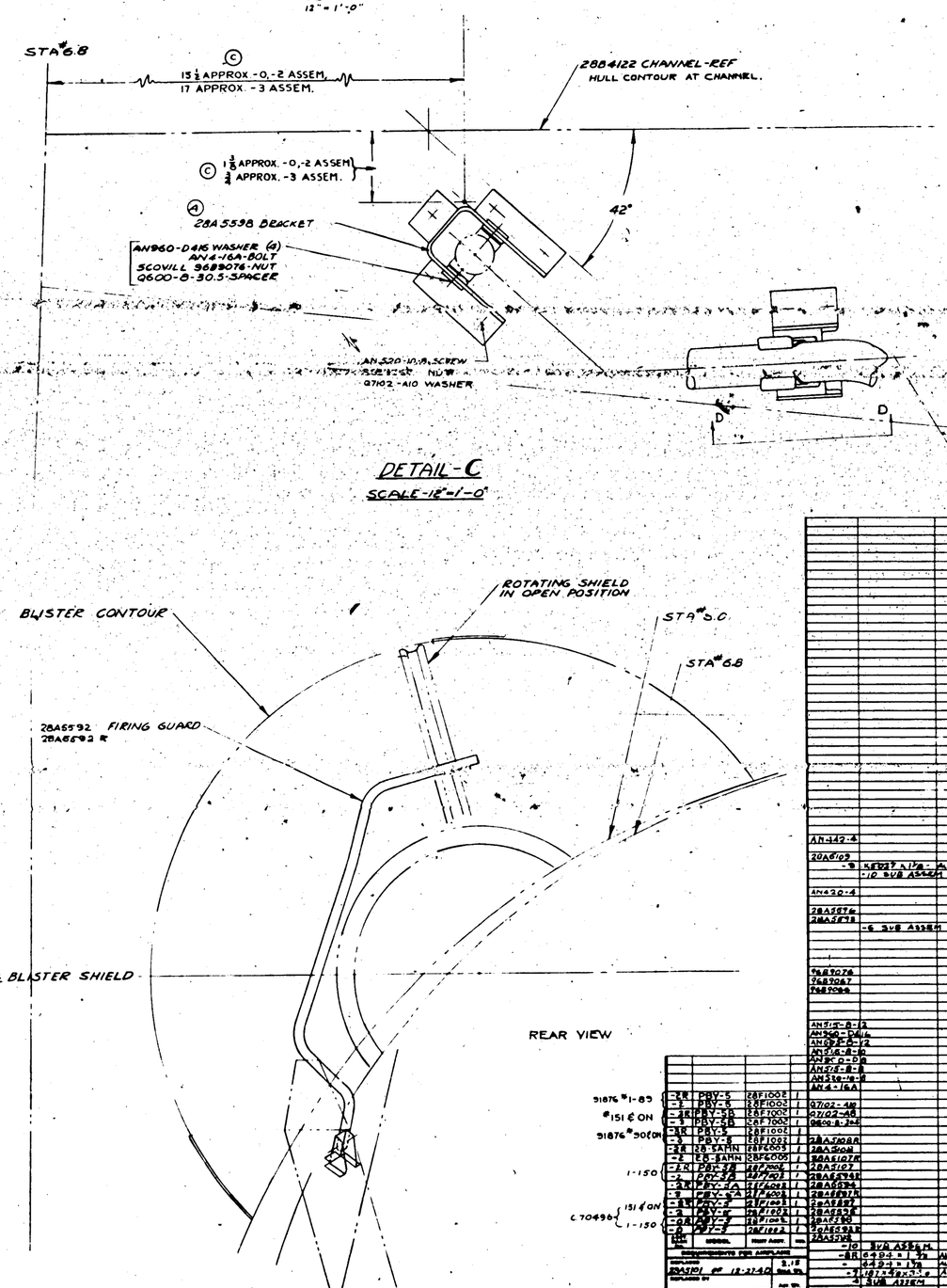
L. H. VIEW



VIEW D-D
12"=1'-0"

MFT	ALTERATION	DATE	BY	LET'S	ALTERATION	DATE	BY
				A	ADDED PARTS FOR SECURITY (SPACE OF -9 ASSY)	11-14-42	
				B	REVISED AREA ETC. NO WELDING	2-13-43	
				C	CREATED -9 ASSEM. ADD WELDING	2-13-43	

INCORPORATES
PB4Y-1 BUAER CHG. NO. 10
PB4Y-1A BUAER CHG. NO. 3



DETAIL-C
SCALE-12"=1'-0"

REAR VIEW

-2R	PBY-5	28F1002	1	
-1	PBY-5	28F1002	1	
-2R	PBY-5A	28F1002	1	
-1	PBY-5A	CAF7002	1	
-3R	PBY-5	28F1002	1	
-2	PBY-5	28F1002	1	
-2R	28-5AMN	28F6003	1	
-1	28-5AMN	28F6003	1	
-2R	PBY-5A	28F7004	1	
-1	PBY-5A	28F7003	1	
-3R	PBY-5A	28F7003	1	
-2	PBY-5A	28F7003	1	
-1R	PBY-5	28F1003	1	
-1	PBY-5	28F1003	1	
-2R	PBY-5	28F1004	1	
-1	PBY-5	28F1004	1	
-0	PBY-5	28F1002	1	
PART NO.	MODEL	NEXT ASSY.	QTY.	

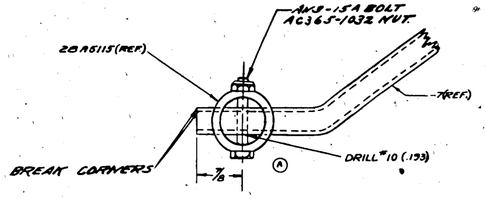
91876 #1-89
#151 & ON
91876 #301 ON
1-150
C-704961 #151 & ON
1-150

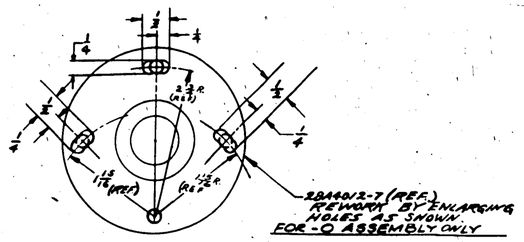
| | | | |

LET	ALTERATION	DATE	BY
A	CHANGE 28° BEND TO 12-7.10° (12° 0'-11") -0 ASSY. W/T GRP.	8-21-42	[illegible]
B	REVISED ITEMS 20 FOR "STENCIL MAY LOOK" & ADDED NOTE "STENCIL" -0 ASSY.	9-11-42	[illegible]
C	-1 ADDED PT. TO PACK. -0 ASSY.	9-11-42	[illegible]

ECN 43982
ECN 43983

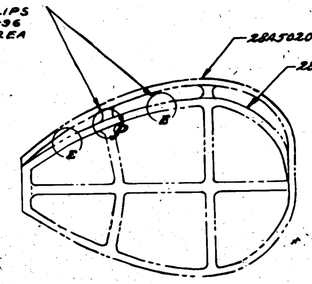
VIEW B
SCALE 12"=1'-0"



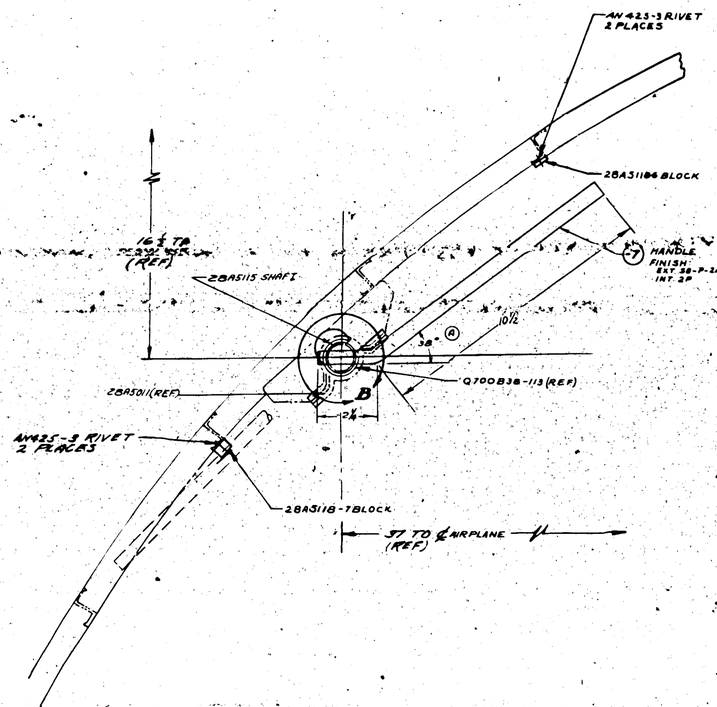


VIEW C-C
SCALE 12"=1'-0"
-0 ASSEMBLY

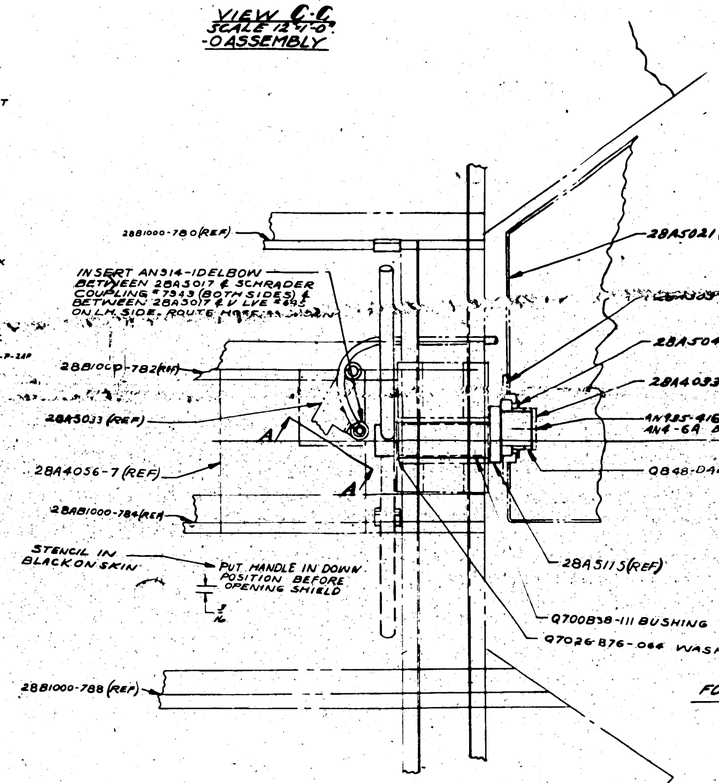
NOTE:
REMOVE 2 SETS OF CLIPS 28A3021-39 & 28A3020-96 LOCATED APPROX. IN AREA "E" REPLACE WITH CLIPS -66-7 (SEE VIEW D)
-0 ASSEMBLY



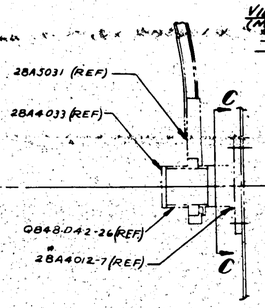
VIEW LOOKING OUTBOARD
(NOT TO SCALE)
-0 ASSEMBLY



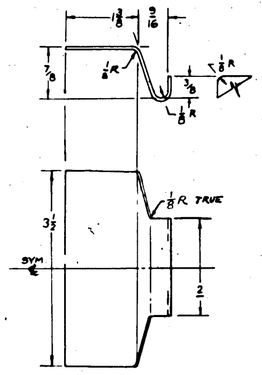
L.H. SIDE - LOOKING FORWARD



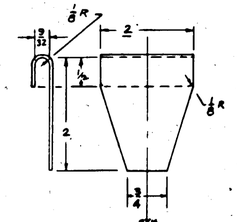
VIEW LOOKING OUTBOARD



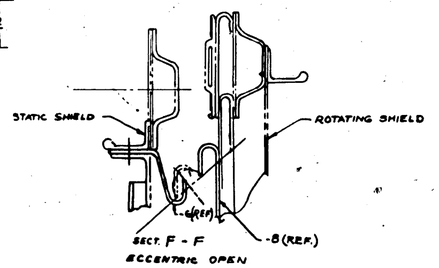
NOTE: MATERIAL FOR -7
1. 1/2 O.D. X .065 1/2 HR CR PROT ST. TUBING SPEC. AN-WWT-850 COND. N
2. 5/8 O.D. X .049 5/8 HR CR PROT ST. TUBING SPEC AN-WWT-850 COND. N
3. 1/2 O.D. X .083 1/2 STR 345 [illegible] SPEC #4740 OR SAE 1025 ST. TUBING SPEC AN-WW-T-849 TS 53000-58000 "D"



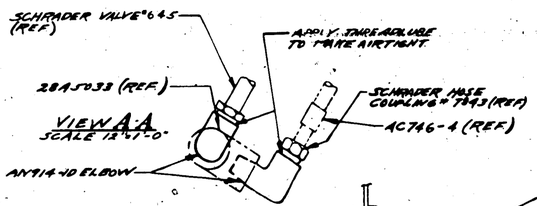
DETAIL -6 CLIP
12"=1'-0"

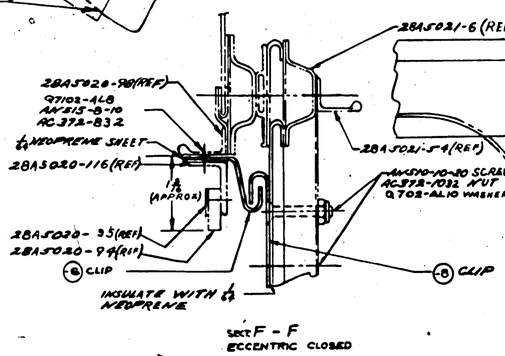


DETAIL -8 CLIP
12"=1'-0"

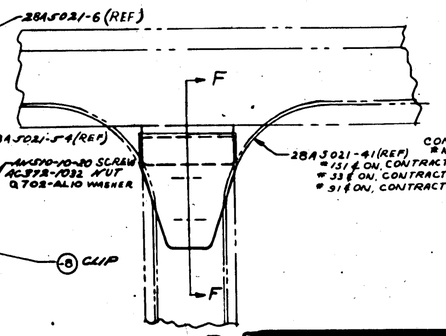


SECT. F - F
ECCENTRIC OPEN





SECT F - F
ECCENTRIC CLOSED



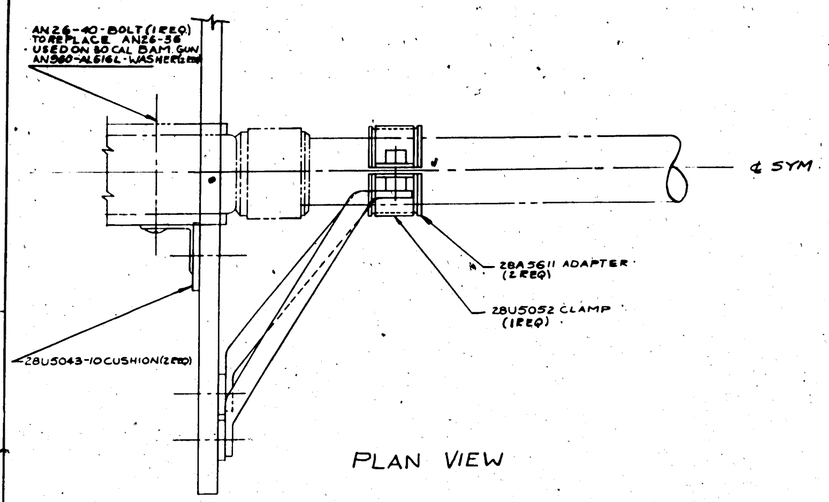
VIEW D
SCALE 12"=1'-0"

FINISH CODE
Z ANTI-[illegible]
P P.I. PRIMER
AP ALUMINIZED PAINT
C CADMIUM PLATE

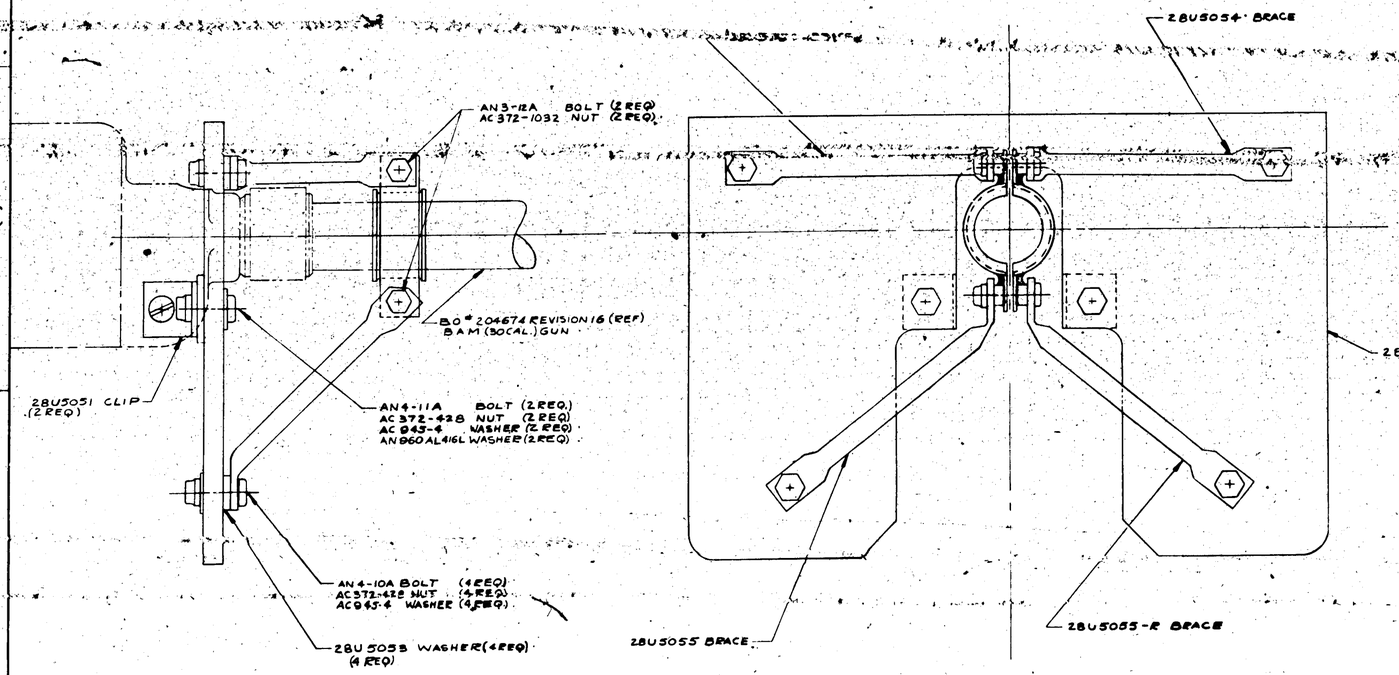
PART NO.	STOCK	MATERIAL	SPEC	-0 REQ	-2 REQ	-3 REQ	-4 REQ	-5 REQ
	PARTS LIST PER ASSY							
-2R	PBF-2	28A4102-1						
-3R	PBF-3							
-4R	PBF-4							
-5R	PBF-5							

LET	ALTERATION	DATE	BY
A	REVISED PARTS REQ'D & ADDED USE ON PB1W & PB1W LIBERATOR (INCL. TO PB1W CONT. W356)		

AN26-40-BOLT (1 REQ) TO REPLACE AN26-36 USED ON 50 CAL BAM GUN
AN960-AL616L-WASHER (1 REQ)



PLAN VIEW



*#176 "BL INCL. BG. 949-3 CONTRACT NO 7771) 953-2 CONTRACT NO 8869)

PBY 5A	28U5310 B.
REQUIREMENTS PER AIRPLANE	60
REPLACED BY	QUAN. PER
LIST OF Subassembly Sh. 54	SCALE 12"=1'-0"
STAMP PART NUMBER WHERE SHOWN	

PART No.	STOCK	MATERIAL	SPEC.	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
PARTS LIST PER ASSY.				-0	-2	-3	-4	-8	

A/C		LINK	RUDDER	GEAR	AILERON	PICKUP	TRUCK
MAT'L NONE	NONE	5-20-6	V-45	9-42		2 DECK	
HEAT TREAT	FINISH	GROUP	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL

TITLE: INSTALL - ARM'T - 50 CAL. BAM GUN FORWARD ARMOR PLATE

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

DWG. NO. 28A5122 — SIZE J

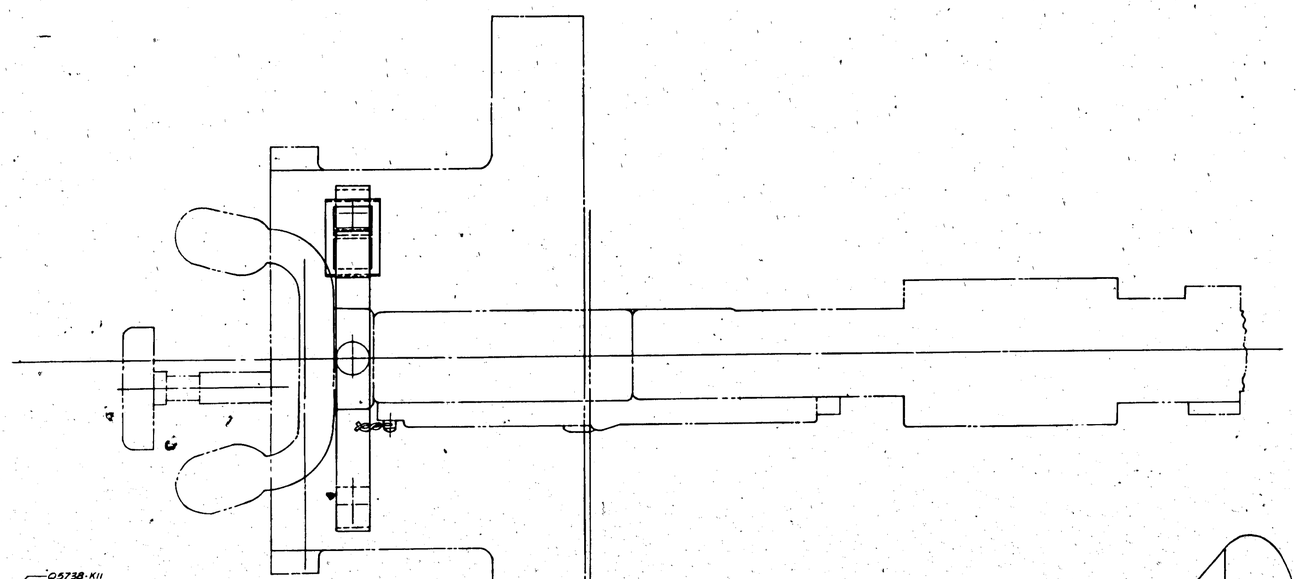
AN4-11A	2
AN3-12A	2
AC372-1032	2
AN4-10A	4
AC372-428	4
AC945-4	8
AN960-AL416L	4
28A5611	2
28U5052-R	1
28U5038	4
28U5054	1
28U5034	1
28U5053	1
28U5052	1
28U5031	2
28U5044	1
28U5043-10	2

ZONE: D-2, A-1, C-2, C-2, D-2, D-2, D-2, D-2, A-1, D-1, D-2, C-2, D-2, B-2, B-2, A-1

H 44

LET	ALTERATION	DATE	BY
A	CREATED Q SUB ASS'Y ADDED Q5705-KF4 WAS Q5738-K42 REVD Q5770-5, WT. CHG. NEG.	7-30-43	

E.O. AL-0768



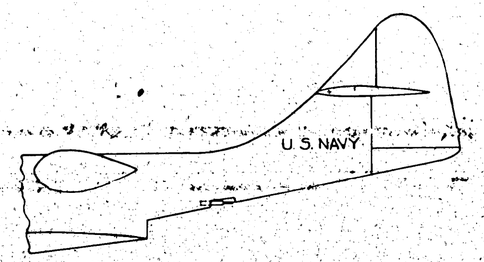
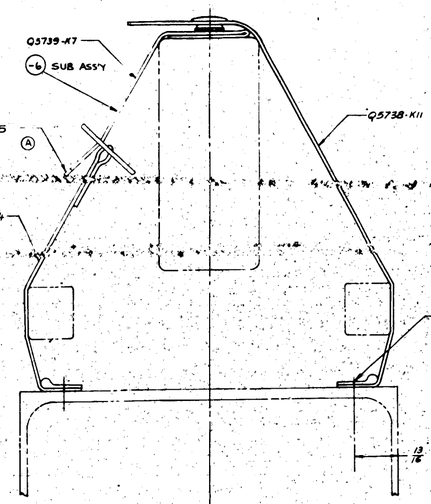
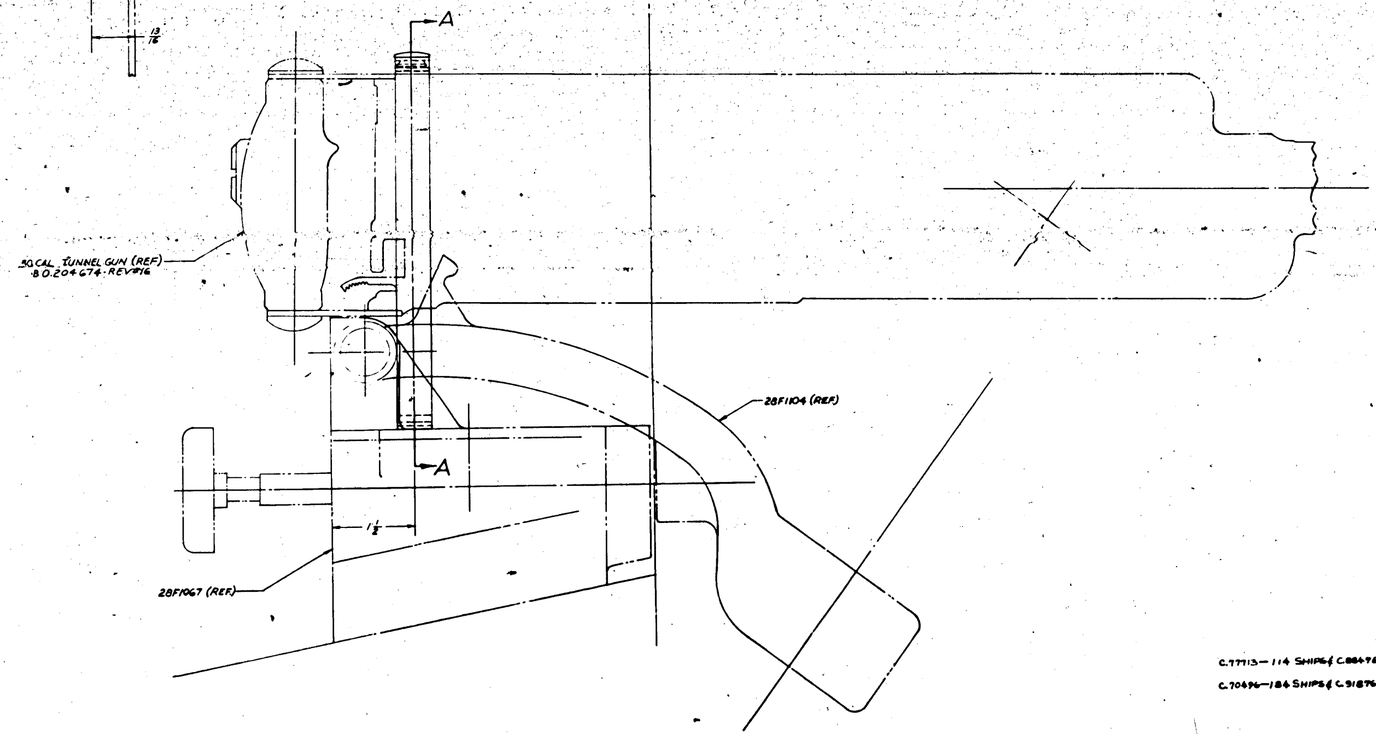


DIAGRAM SHOWING APPROXIMATE POSITION OF GUN WHEN RESTRAINED BY READY LATCH



SECTION A-A

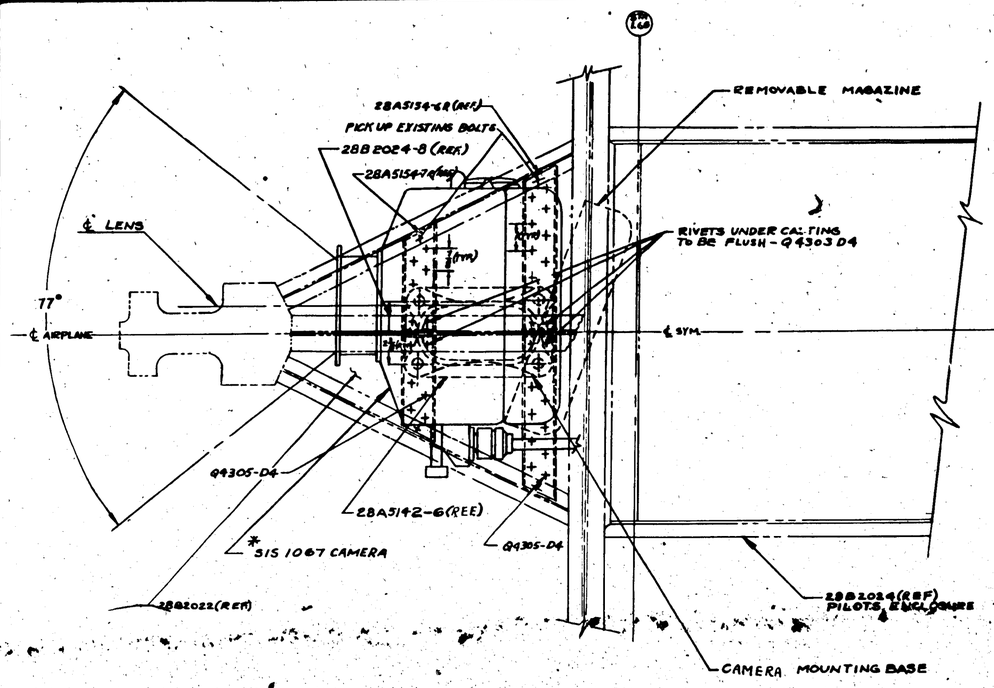


C-77113—114 SHIPS & C-88496
C-70496—184 SHIPS & C-91876

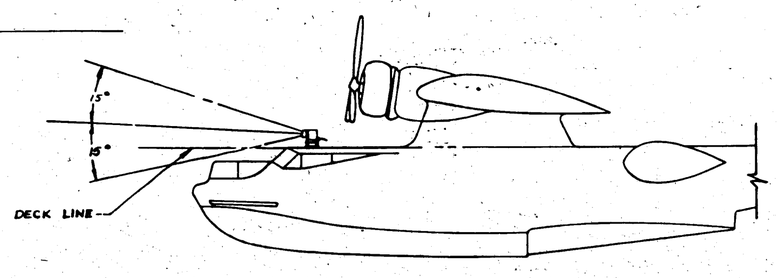
| | | |

LET	ALTERATION	DATE	BY
A	CHGD: 4 HOLES IN WING & BEAM & 6A NOW 8A ref'd BODY ASSEMBLY		

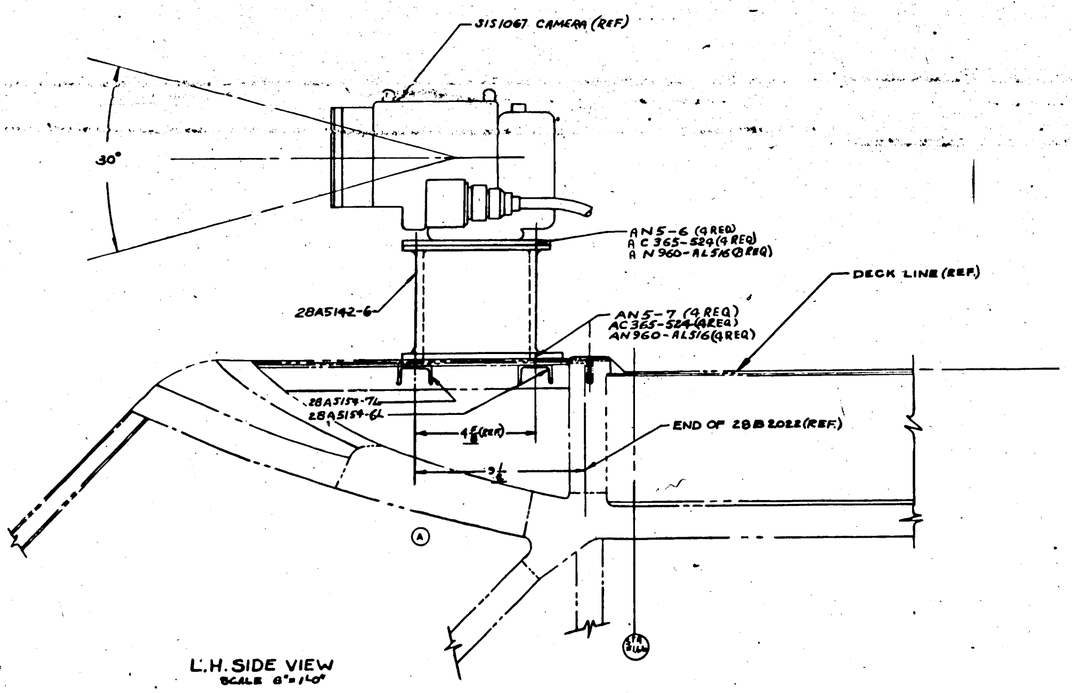
SA 2745046



PLAN VIEW
SCALE 6"=1'-0"



L.H. VIEW OF BOW
SHOWING LOCATION OF CAMERA
& SIGHTING ANGLE - NORMAL
FLIGHT ATTITUDE
SCALE 1/4"=1'-0"



L.H. SIDE VIEW
SCALE 6"=1'-0"

* GOV'T FURNISHED PART
GOVT FURN'D EQUIP. WT. = 18#
C.I. NO. 56
CONT. NO. 9187 (Navy)

PART NO.	STOCK	MATERIAL	SPEC.	PARTS LIST PER ASSY. -0	-1	-3	-4	-5
				1	1	1	1	1
				1	1	1	1	1
				1	1	1	1	1

LAST	ALTERATIONS	DATE	BY

LAST	ALTERATIONS	DATE	BY
	A ADDED 3/16 DIA. 14 3/4" DIM. WAS 6 1/2, 7 3/4" DIM. WAS 2 1/2, 8 1/2" DIM. WAS 3 3/4, 7 1/2" DIM. WAS 9 1/2" NOT CHG. MCR 101-5	7-7-43	E.O.A 50674
	B ADDED A10-8 (1) WAS AN520 MW6-10 (2 PLACES), A510B D10-10 (1) WAS AN520 D10-10 (1), A510B D10-8 (1) WAS AN520 D10-8 (1), A510B D10-6 (1) WAS A510B D10-8 (1), AS7241-K6-10 (1) WAS AS7241-K6-12A, AS7241-K6-12 (1) WAS AS7241-K6-10A, AS7241-D6-12 (1) WAS AS7241-K6-10A, A500BA-3 (1) WAS A500BA-3 (2), A500BA-3 (1) WAS A500BA-3 (2), AC572 D1032 (1) WAS AN960-A1001 NOT CHG. MCR 101-5	8-24-43	E.O. B26485
	C 5 SPOTWELD @ PLACES POC WAS AN456 AD4 WTCHG MCR	9-28-43	
	B ADDED 5 AS7241-K6-3 (1) AN426-AD4 2 PLACES, LOCATING DIMS. & REF. TO DWG B-9 WTCHG. MCR	11-24-43	

NOTE:
C'SK HEAD TO BE IN WEBBING

BOMBSIGHT TO BE IN LOWEST POSITION

SPOTWELD SPACE 1"

STENCIL ⅛ LETTERS ON TOP SURFACE AS SHOWN (BLACK PAINT)

SPOTWELD SPACE 1"

Q5726-K1-27
AS799-6
Q510G D10-9
AC572-DA932

Q5726-K1-18
AS799-6
Q510G D10-9
AC572-DA932

Q5726-K1-32
AS799-6
Q510G D10-10
AC572-DA932

Q5761-K6-3 (1)
AN426-AD4
(2 PLACES)

Q5761-K6-13 (1 REQ.)
AN426-AD4
(3 PLACES)

Q5761-K6-8 (1 REQ.)
AN426-AD4
(4 PLACES)

SPOTWELD
9 PLACES POC

28A3015-11 (1)

28A3015-9 (REF.)

28A3015-9 (1)

28A3015-11 (REF.)

AN442-AD6
(4 PLACES)

AN442-AD6
(2 PLACES)

(7) (REF.)

Q5761-K6-18 (1) REQ.
S4303-D6
(2 PLACES)
C'SK HEAD TO BE IN WEBBING

Q5708A-3
Q510G D10-6
AC572 D1032

SECTION A-A
12" = 1'-0"

SECTION B-B
12" = 1'-0"

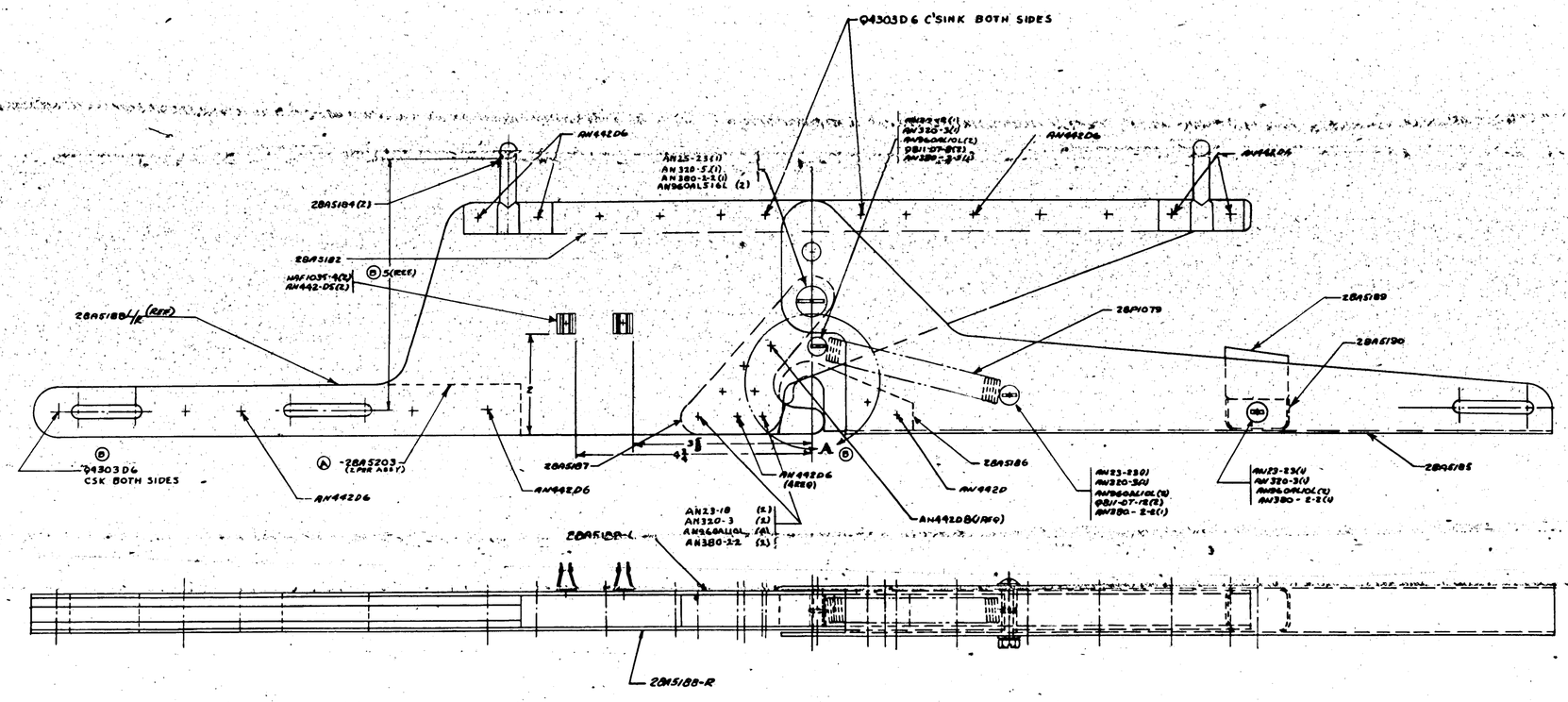
SECTION C-C
12" = 1'-0"

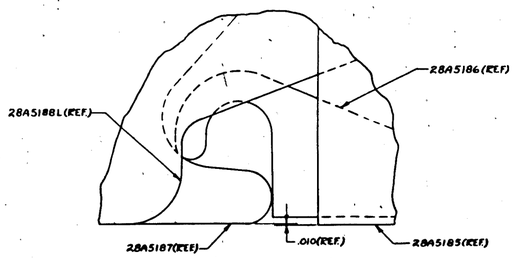
SECTION D-D
12" = 1'-0"

| | | |

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
▲	CHG REQ. # C-8-8-(470)		
	DRAW. 1 REQ'D TO 2 REQ'D ON #1 CHG	9-11-42	LEWIS
B	ADDED #28A5190, CHG PART # 28A5183,		
	DELETED #28A5191 & ADDED 28A5189		
	ALL PIECES	4-5-43	LEWIS





DETAIL A
SCALE 24"-1'0"

NOTE; INSULATE ALL DISSIMILAR METALS WITH ZINC CHROMATE PASTE.

MIL-P-116-2

H 48

APPROVED FOR ROLLING BY

PART NO.	STOCK	MATERIAL	SPEC.	LIT	No REQ	LIT	No REQ	LIT	No REQ	LIT	No REQ	LIT	No REQ
				PARTS LIST PER ASSY.		-0		-2		-3		-4	-5
AN442D6					4								
AN442D8					2								
MS21042L4					4								
AN960-10L					2								
QBU-DP8					2								
QBU-DP12					2								
AN23-8S					2								
AN380-2S					1								
AN23-12S					1								
AN380-2					4								
AN320-3					4								
AN380-2-2					6								
AN960AL16L					10								
AN960AL8L					2								
28A5184					1								
28A5182					1								
MAF1035-4(2)					1								
AN442-D5					2								
28A5187					1								
28A5203					1								
28A5186					1								
AN442D					1								
28A5189					1								
28A5190					1								
28A5185					1								
28A5188-L					1								
28A5188-R					1								

A-8	SHT NONE	NO M.E.	
HEAT TREAT		FINISH	
NAME ASSY-ARMT-ADAPTER-BOMB RELEASE RACK			
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.			

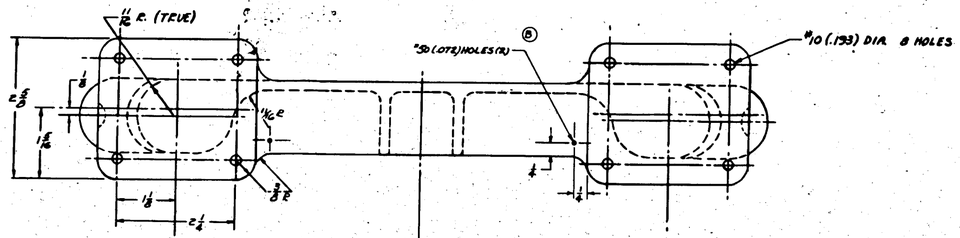
SHOP	DRAWING	MAT	WORK	SPEC

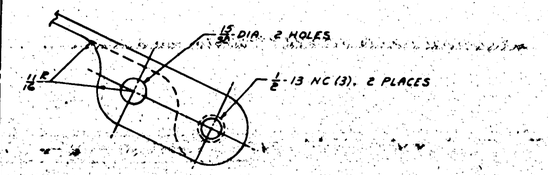
DWG NUMBER
SIZE J
28A5183

PAT-S PV-3 (BRASS) 4 (ALUM.) 2
DESIGNED BY
DRAWN BY
TRACED BY
CHECKED BY
APPROVED BY
DATE 12-8-42
SCALE 12"=1'0"

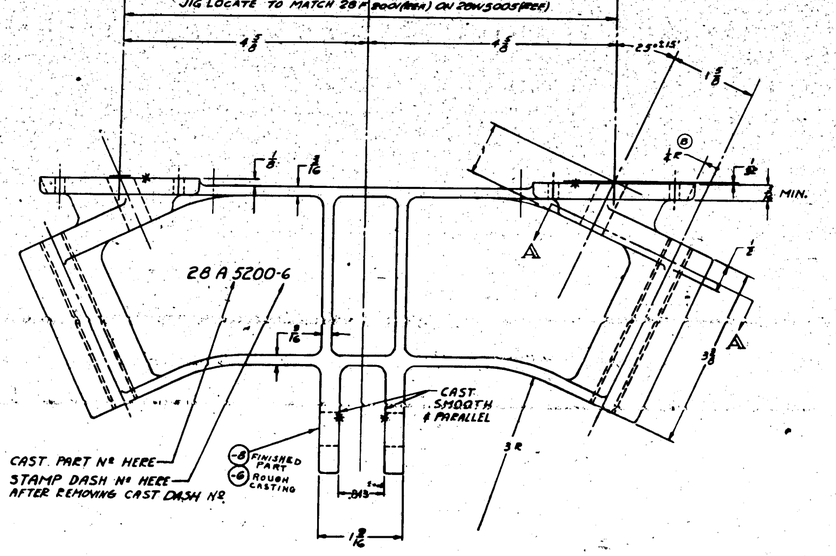
'R' 16

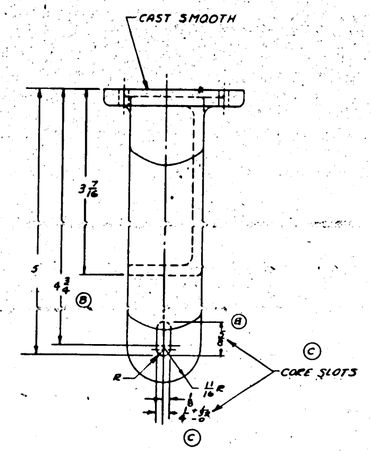
LET	ALTERATION	DATE	BY
A	10 REQ'D ARE BLK RSVD FOR USE FROM LUND & ARTZ FOR FAIR FRN 28 FAIRS (SEE) TO ASSIGN (ASSD)		
B	ON FACE ORDERED, RTA-1 (2) FROM ON FACE TO ONE ANGLE 45 DEG. FOR (ORDERED) ALLOCATIONS ALSO. PER S.N. 24 DCN. W.C.(ACK)	7-22-43	
C	ON FACE ANGLE "B" TO READ "WITH CORE HOLE" PER W.C.(ACK)	8-25-43	
		9-15-43	

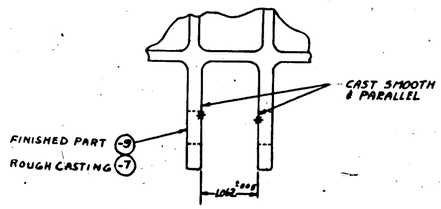




SECTION AA







-7 IDENTICAL TO -6 EXCEPT AS SHOWN.

NOTES:-
BREAK ALL CORNERS 1/16 R. EXCEPT WHERE SHOWN AND NOTED OTHERWISE. - ALL FILLETS TO BE 3/16.
MINIMUM WALL THICKNESS TO BE 3/16.

CLASS I INSPECTION.

M.C.P. 10-E.C. #31876

H 49

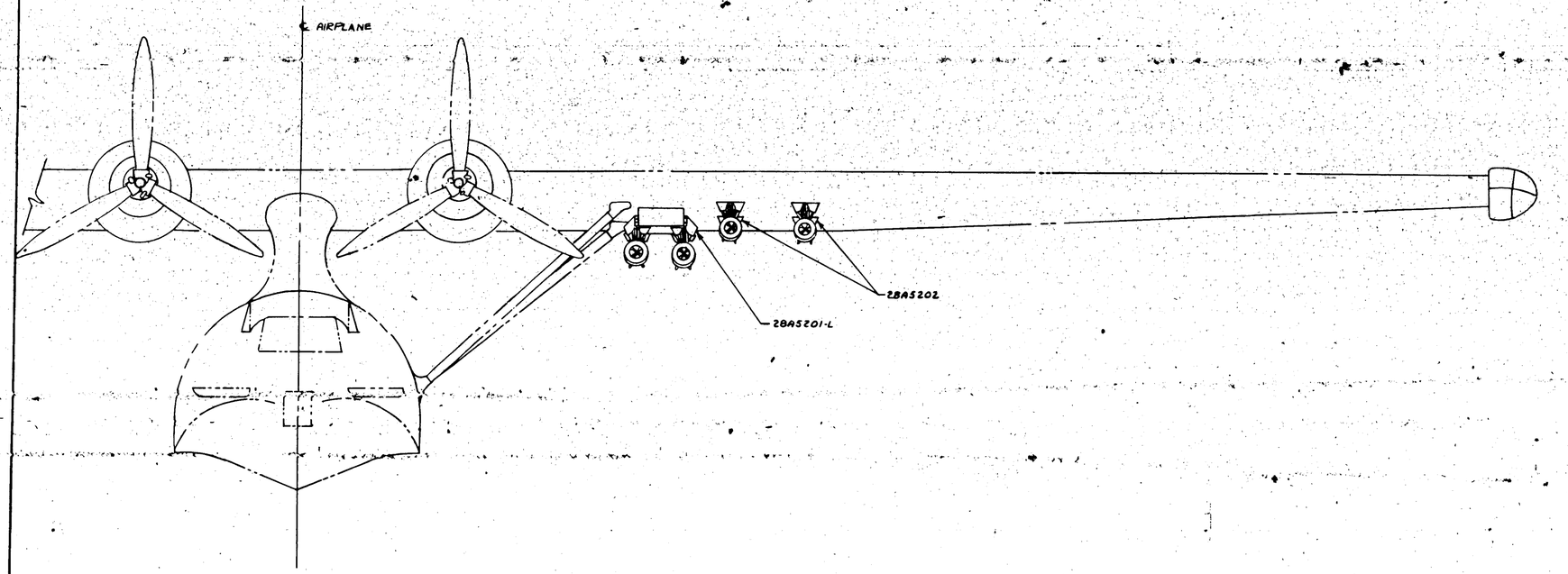
NOTE: SURFACES INDICATED BY ASTERISK(*) ARE TO RECEIVE A CONVENTIONAL FINISH UNLESS CASTING IS MADE BY PERMANENT MOLD ANTIOCH, OSBRINK OR EQUIVALENT PROCESS.

APPROVED FOR TOOLING BY

PART No.	STOCK	MATERIAL	SPEC.	PARTS LIST FOR ASSY. -0	-3	-5	-4	-8
-8	FINISHED CASTING	MAGNESIUM	DOMESTIC					
-6	FINISHED CASTING	MAGNESIUM	DOMESTIC					
-5	MACHINING	AL-ALL	AN-QQ-A-367					
-4	ROUGH CASTING	AL-ALL	AN-QQ-A-367					

DRAWN	Mack	P-CP	Part No.	Left	
TRACED			CHECKED		
NAME	CHOCK - ARMT. BRITISH BOMB ADAPTER-CASTING			SIZE	J
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.				DWG. NO.	28 A 5200

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



VIEW PORT SIDE LOOKING AFT

M.C.R. #126-2

NOTE: FOR HOISTING INSTRUCTIONS SEE DWG No 28A5207

H 50

APPROVED FOR TOOLING BY

PART No.	STOCK	MATERIAL	SPEC.	LH -5 REQ.	RH -5 REQ.	LH -3 REQ.	RH -3 REQ.	LH -4 REQ.	RH -4 REQ.
28A5202						1			
28A5201-R							1		
28A5201-L								1	

PARTS LIST PER ASSY.

A-5			PROV
HEAT TREAT	NONE	FINISH	NONE

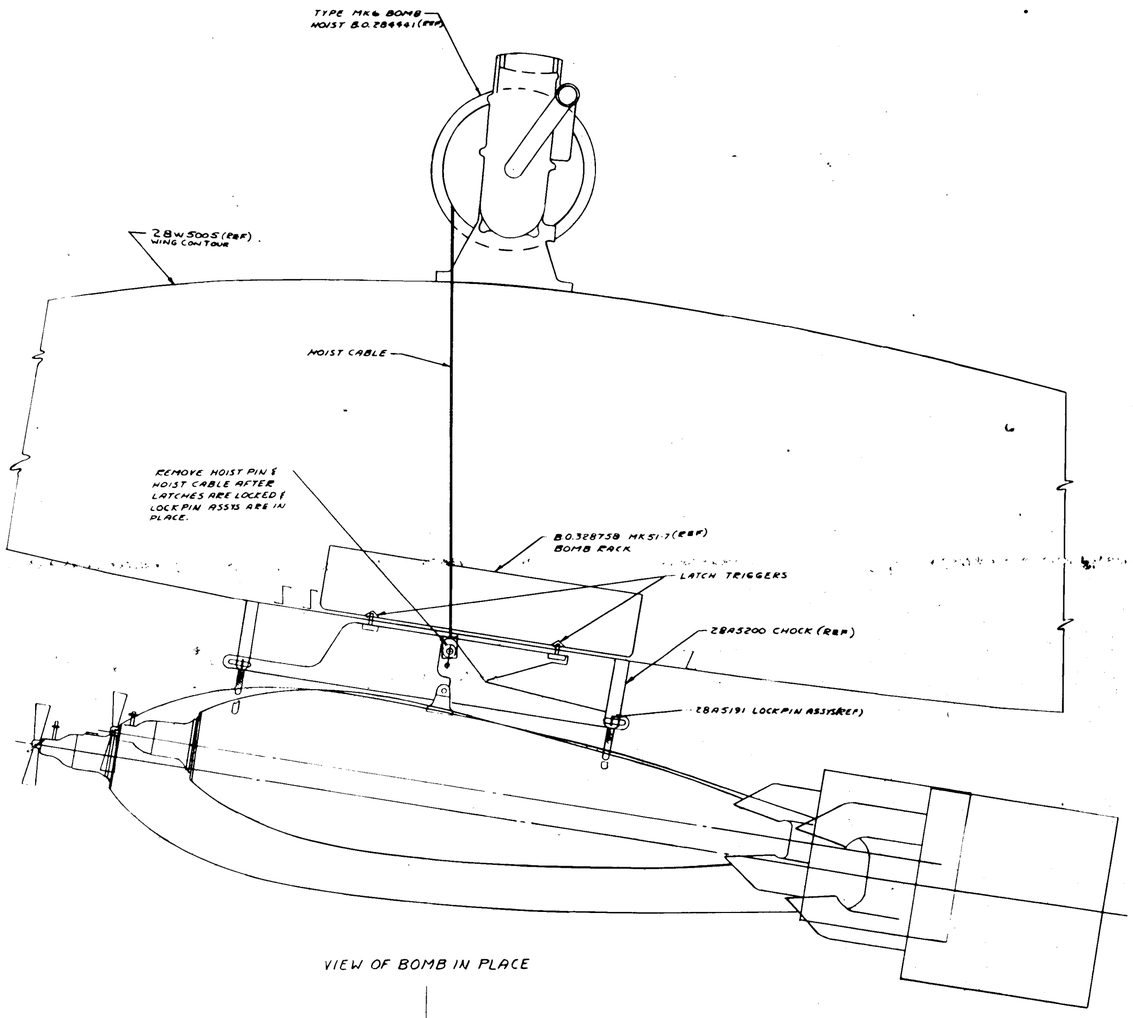
NAME INSTALL-ARMT-BRITISH BOMB ADAPTER EQUIP.

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

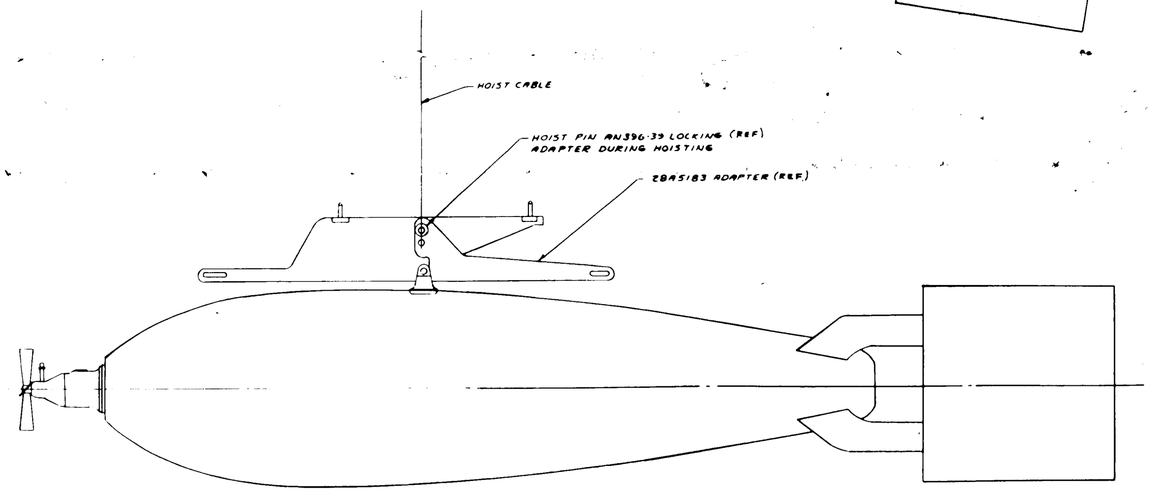
SIZE J

DWG. NO. 28A5206

MFT	ALTERATION	DATE	BY	MFT	ALTERATION	DATE	BY



VIEW OF BOMB IN PLACE



VIEW OF BOMB BEING HOISTED

H-51

HCR 126-2

NOTES:
1. FOR INTERNAL ADAPTER ARRANGEMENT SEE D'WG. 28A5202
2. FOR EXTERNAL ADAPTER ARRANGEMENT SEE D'WG 28A5201
3. HOISTING OPERATIONS ARE THE SAME FOR INTERNAL & EXTERNAL BOMB RACKS.

APPROVED FOR TOOLING BY RB HUMPHREYS 1-2-43

PART NO.	STOCK	MATERIAL	SPEC.	LH RH REQ'D -0	LH RH REQ'D -2	LH RH REQ'D -3	LH RH REQ'D -4	LH RH REQ'D -5
		PARTS LIST PER ASSY.						

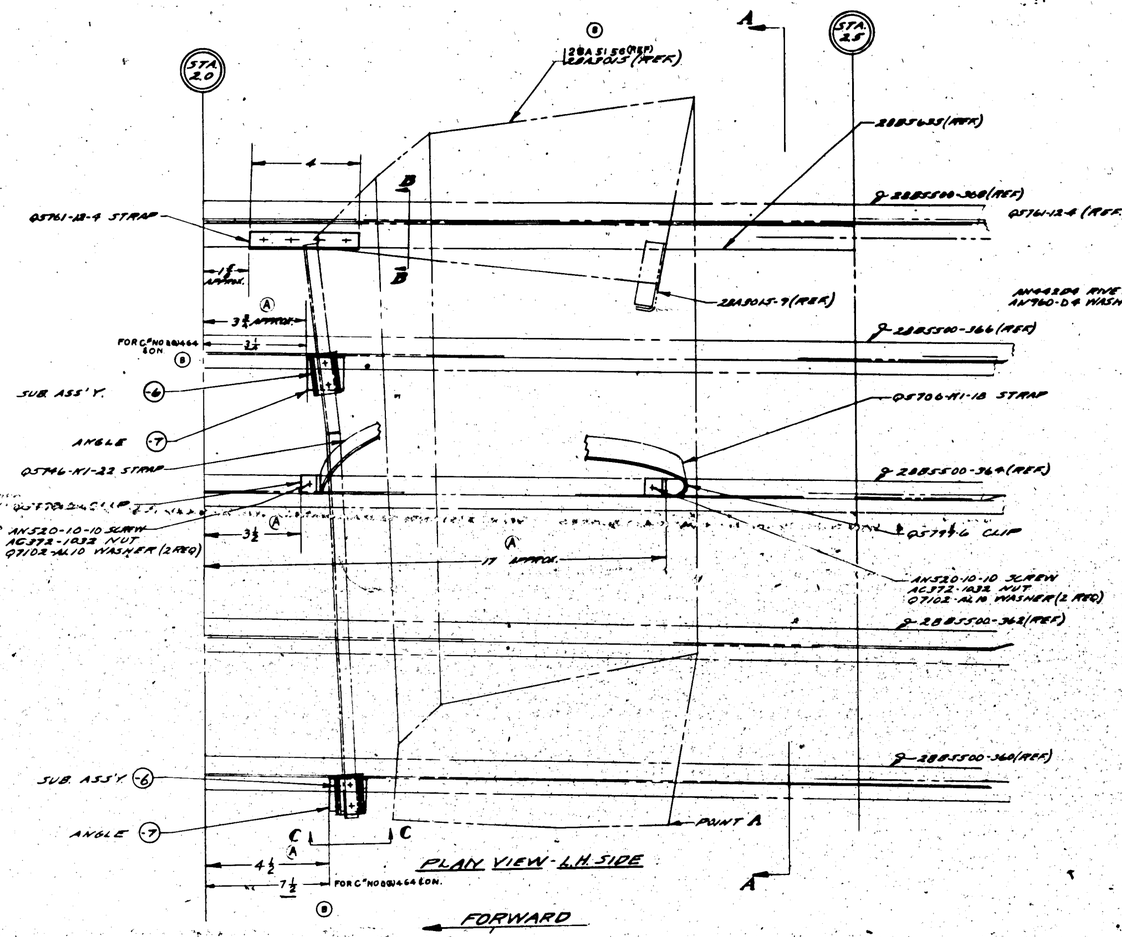
A.C.							
DRAFT	SCALE						
HEAT TREAT		FINISH					
DRAFT	CHECKED	APPROVED	DATE	APPROVED	DATE		

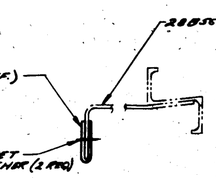
HOISTING INSTRUCTIONS-
ARMT-BRITISH BOMB ADAPTER
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J
28A5207

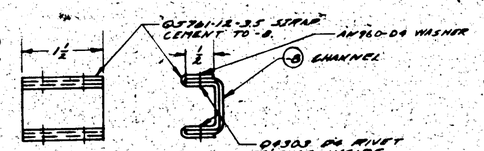
LET	ALTERATION	DATE	BY
A	PRODUCT ENGINEERING RELEASE NO. 1 ON ORDER OF PRODUCTION ENGINEERING DEPT. DATED 10-6-41		
B	ADDED 2 SCREWS & NUTS PER PRODUCTION ENGINEERING DEPT. DATED 10-24-41		

Eq. A 20012 C



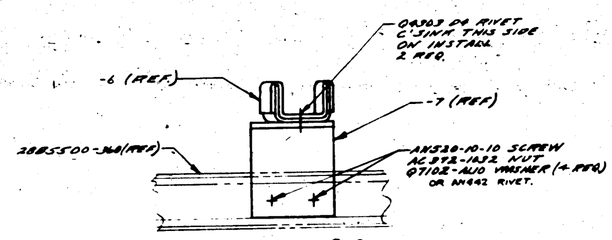


VIEW B-B
SCALE 12"=1'-0"

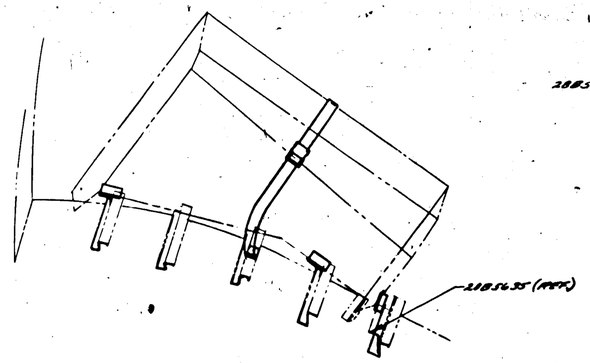


DET. -6 SUB ASS'Y
SCALE 12"=1'-0"

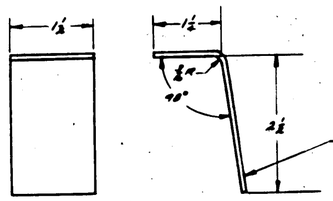
NOTE:
-6 & -7 ARE TO BE INSTALLED WITH POINT A & 2BA205-9 RESTING ON SKIN, THUS GIVING 4 POINTS OF SUPPORT. (2BA3015-9 PREVIOUSLY ADJUSTED TO SUIT BOTH SKIN.)



VIEW C-C
SCALE 12"=1'-0"



VIEW A-A
SCALE 3"=1'-0"
(ROTATED CLOCKWISE 90°)



DET. -7
SCALE 12"=1'-0"

RUSH RELEASED 10-6-41

FINISH COL
Z ANODIC TREATMENT
P P-07 PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE

| | | |

LET	SUPPLIES & EQUIPMENT CLASSIFICATION / ALTERATION	DATE	BY
T	TRANSD TO DATE	3/6/58	
U	UNCAP OPERATOR COMM'T E	9-23-57	
V	CHG FOR ORDER "-555"		
V	ON T-5 W/O HARDWARE	10-16	
W	ADDED -30 ASSY FOR XPBY-5A	11-22-57	
	REMOVED 288081-1, -BETWEEN		
	FORWARD		
X	REPLACE -2 WITH -10, -6 WITH -41 & -23 WITH -44		
X	REPLACE -2 WITH -43, -26 WITH -45 & -27 WITH -65	1-7-58	
Y	ADDED -36 & -37 ASSY'S	1-15-58	
	ADDED -555 ASSY.		
	REVISED 288039-3 WITH 288039-7 IN -550 ASS'Y		
	ADDED -44 (ADDED -47) TO IN OF -43 ASS'Y, ADDED -47 TO ORD.		
Z	ADDED B-560 ASS'Y.	2-13-58	
	ADDED -46		
AA	ADDED NOTE SEE DETAIL P FOR -560 ASS'Y, ADDED DETAIL P		
	REPLACED -16, -16, -31, -32 WITH -51, -52, -53, -54 FOR -560 ASS'Y		
BB	ADDED DROP & PIN.	7-17-58	
AB	-51 & -52 WERE -30 & -31	9-24-58	
AC	ADDED -55 ASS'Y, -56 & -57 ASS'S & -58 THRU -61	9-24-58	
AD	-43 WAS -28L, -31 WAS -31R		
	ADDED L.H. HOLE TO -634 R.H. SIDE TO -31, REMOVED "DIA" FROM -51 & -53, ADDED "AND -634 & -58 DIA" TO -31 & -53 EXCEPT FOR JOGGLE AT KEELSON"		
AE	TO NOTE AT DETAIL P, ADDED "DIM. 3/8 WAS 3/4" AND "WF C.H.S."	9-30-58	
AF	ON FACE -63 R.H. SIDE WAS -63 L.H.		
	NOTE -51, -52, & -53 WAS -51 R.H. SIDE, -51 L.H. SIDE WAS -51 R.H. SIDE		
	NOTE -43, -51, -52, & -53 WAS -51 R.H. SIDE, -51 L.H. SIDE		
	-53 -54 (REF) WAS -53 THRU -58 AND --- AT		
	REVISED NO WT. C.H.S.	2-19-59	

C.R.80310 — E.O.32641A — E.O.3504 — E.O.A41619 — ER32641

PLAN VIEW SHOWING STRAP DET. & ATTACHMENT

DETAIL 'K' FOR XPBY-5 ONLY

SECT. L-L FOR XPBY-5 ONLY

SECT. M-M FOR 560 ASS'Y.

SECT. E-E

SECT. B-B

SECT. HH

SECT. J-J

DETAIL P FOR -560 ASSEM. ONLY

FINISH CODE	
E	ANODIC TREATMENT
P	P-D PRIMER
AP	ALUMINIZED PRIME &
C	CORROSION PLATE

555	PBY-5B	288-0000	/	
573	PB-5AB	288-0100	/	
623	PB-5AB	288-0400	/	
630	PB-5AB	288-1000	/	
631	PB-5AC	288-2000	/	
560	PB-5AC	288-3000	/	
555	PBY-5	288-4000	/	
556	PBY-5A	0089-2000	/	
555	PBY-5	288-4000	/	
560	PBY-5	2881-1000	/	
555	PB-5AB	288-1000	/	
	PBY-4	288-0000	/	
	PBY-3	288-1000	/	288023-1
	PBY-2	288-2000	/	
	PBY-1	288-3000	/	288021-1
	1PBY-1	288-4000	/	AC4128-06

PARTS

REPLACES				
REPLACED BY				
10-58				
NOTED	NOTED	NOTED	NOTED	
CONSOLIDATED AIRCRAFT CORP BUFFALO N.Y.				

KEEL TRUSS - HULL STA 2 - STA 3

J 288023

H 53

NOTE:
-37 - .032 AL ALLOY SHT (REPLACES -27)
SAME AS -2, -6 & -25 EXCEPT "A" HEIGHT ADDED AT FORGING
-38 WEB (REPLACES -6)
-39 WEB (REPLACES -2)
-61 GUSSET (REPLACES -25)

SECTION E,-E,
APPLIES TO -60 ASSY ONLY

SECTION E-E
APPLIES TO -0 ASSY ONLY

LET	ALTERATION	DATE	BY
W	TRACED UP TO DATE	7-21-54	B.A.
X	INCORPORATED CHGS. PER	8-4-54	NELSON
	CHANGE ORDER # 5883		
Y	ADDED -38 ASSY. W/ CRATE	8-18-54	HAMMETT
	AS ASST. NO. PER X-PBY-5A	"	"
Z	ADDED SEC. E-E & GUSSET	"	"
	MINOR DIFFERENCES	"	"
	INCORPD PBY 5 X-PBY-5A	"	"
A-A	ADDED -350 & -54, E-63	9-21-54	MCKEE
	REPL. -38 & -6		
	DIMENSION 1 3/8 - 2 3/4 WAS 2 3/8		
	1 3/8 WAS 1 5/8 - 3 1/2 WAS 3 1/4		
AB	ADDED 550 ASSY TO B/L -6.5	11-22-54	RUSS
	REPLACES -1 BY -550 ASSY.		
	ADDED -7 EXCEPT 180 ASST -1		
	ON 550 ASSY ADDED -44 & 45		
	TO DWG		
AC	1/8 WAS 3/16 AT "F"	2-16-55	MCKEE
AD	REPL. RIVETS AT -38	2-24-55	"
	-44 - 36 & -45 WERE 5/16	3-24-55	"
AE	1 1/2 & 2 1/2 ANGLE ADDED	4-19-55	KEY
	-44 WAS 1 1/8 & 1 5/8 WAS 0.75		
	WAS 3", 1 REQ. NOTE ADDED		
AF	DIM 4 1/8 WAS 3 7/8, 8 WAS 8 1/4	5-19-55	KEY
AG	REVISED 1 3/8 DIM FROM 25 LOCS.		

E.O. 15394
E.O. 17909
E.O. 18246
SO 46536

WT 4 69 #/SHIP 87 19-799 lbs/ship

6028A

NOTE
-38, -39 & -61 SAME AS -2, -6 & -25 EXCEPT -3/8 HEIGHT ADDED AT FORGING INDICATED DUE TO REPLACEMENT OF -27 WITH -37 GUSSET

-48	.030 WEB	
-44 RH	REPLACES -44	MAT'L OF -48, -49
-30 LH	-20	-50, -31, -52, -53
-31 RH	-19	-54, -55, & -56
-32 LH	-34 LH	1" x 1" x 1/16
-33 RH	-23 RH	AL ALLOY
-34 LH	-24 LH	BULB ANGLE
-35 RH	-33 RH	DIE # H 1298
-36 LH	-32 LH	
-37	-27 (FLUSH WITH EDGE OF FORGING)	

* NOTE -0 ASSY

NOTE — -25 GUSSET AND KEEL WEB EXTEND UP BETWEEN FITTINGS 288061 AS SHOWN See Section E-E

NOTE — -38 WEB EXTENDS FROM STA. 3 TO STA 4 SEE -6 FOR ADDITIONAL WEB

NOTE — ADDITIONAL WEB .030 AL ALLOY (24 ST) L H FOR X-PBY-5A ONLY

DO NOT DRILL FOR THESE 16 RIVETS UNTIL INSTALLATION OF BLK'HD #3 ON ASSEMBLY AN442-D8

(-5) 10 2 1/2 x 2 1/2 x 1/2 TIE STRAP NOT TO BE ATTACHED UNTIL BLK'HD #3-(288200) IS INSTALLED

5 SPACES @ 2" TWO ROWS

4 SPACES @ 2" TWO ROWS

RIVET PATTERN AT STA. 3.46 SIMILAR TO STA. 3.33 EXCEPT AS NOTED

View D-D

View F

Section H-H
TYPICAL CONSTRUCTION

View

Section A-A

Section B-B
LOOKING FORWARD

Section C-C
FULL SIZE.

TYPICAL CONSTRUCTION AT LOWER END OF VERTICAL AND DIAGONAL MEMBERS

RIVET NOTES:-
ALL RIVETS NOT LOCATED TO BE SPACED AT EQUAL INTERVALS AS SHOWN
RIVETS IN INTERMEDIATE VERTICALS & DIAGONALS TO BE AN442-D8 EXCEPT END RIVETS AS NOTED
FOR AN442-D6 USE 3/16 DIA DRILL
FOR AN442-D8 USE 1/4 DIA DRILL
FOR AN442-D10 USE 5/16 DIA DRILL
FOR AN442-D12 USE 3/8 DIA DRILL

FINISH:
2-P-20D -WMS OR PBY-5
2-P-20D-WMS OR PBY-5 & FUTURE

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
CP	CHROMATE PRIMER
C	CADMIUM PLATE

CONT. 70496 (25-167)

-555	PBY-5	288100	1
-550	PBY-5	288-1000	1
-0	PBY-5	288-0000	1
-555	PBY-5A	288-1000	1
	PBY-5	288-1000	1
	PBY-5	288-1000	1
	PBY-5	288-1000	1
-555	PBY-5A	288-1000	1
-555	PBY-5A	288-1000	1

NOTE -60 ASSY SAME AS -0 CONT. 70496 (25-167) EXCEPT AS NOTED -550 ASSY FOR P-9876
PBY 5 WITH BUNT-UP BELTFRAMES. -555
-555 V FOR PBY'S WITH PRESSED FRAMES

DRAWN	S. RIGGS	8-31-54	
APPROVED		DATE	
SCALE	1" = 1'-0"		
NC			
NAVY NOTED		NOTED	NOTED
MATERIAL		SPEC	HEAT TREAT

CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.

NAME: KEEL TRUSS HULL STA. 3 - STA. 4

J 288043

R 288043

H-54

H-55

SECTION A-A
FULL SIZE

SECTION B-B
FULL SIZE

SECTION E-E
FULL SIZE

SECTION D-D
FULL SIZE

SECTION C-C
FULL SIZE

DETAIL F
FULL SIZE-TYPICAL FOR BELT FRAME BOTTOM JOINTS

VIEW AT G-G

VIEW H-H
SCALE 6"=1'0"

LET	ALTERATION	DATE	BY
V	TRACED TO DATE	8-23-39	
W	REVISED -30 FROM 21/M & ADDED RIVETS	9-29-39	
X	INCORPORATED COMM'L CHANGE ORDER "4825	8-19-40	
Y	ADD 288042-1 & 288044-1 TO M/M	12-30-40	
Z	-24 WAS 1 REQD NOW 2 REQD	1-16-41	
AA	CHGD DIM. ADDED -550 ASS'Y	1-17-41	
AB	CHANGED RIVETS & DETAILING	1-18-41	
	MK. 25C, C FOR -550 ASS'Y		
	288039-6 CHANGED TO -039-5		
AC	ADDED -555 ASS'Y USE .072 & .102	1-24-41	
	ADDED TO -1, -12 DETAILING 4-7-41		
	4 67 REQ'D FOR -555 ASS'Y		
	CHG DIM -67 FROM 2.78 TO 2.80		
	ADDED -67 -1 REQ'D		
AD	ADD 1 1/2 x 1/4 M.R. -67 PLATE		
	NOW 3/4 "F" RIVS FROM "R"		
	REVISED -67, -68, -69,	1-15-41	
	MAT. -67 NOW .188 + .72 & .102		
AE	LENGTH OF -67 NOW 13'-5"	2-13-41	
AF	ADDED FILLER PLATE LOCATIONS, SPACE, 328,165, 288612, & FRWN RIVETS	4-11-41	
AG	AL ALLOY 47A10 BOTE ADDED	11-4-41	
AH	SPEC. 4649 NOTE ADDED	11-11-41	
AJ	WT 41 NO REQ. -22	11-19-41	
AJ	ADDED DIM. 1/16 TO FACE OF 1.78 DWG.	11-19-41	

SUPPLIES & EQUIPMENT CLASSIFICATION

E.O. 19147
EO 19462
REF EO 22705
EO A 73329

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

APPROVED		DATE	
CALC WT			
DRAWN	NOTED	NOTED	NOTED
MATERIAL		SPEC.	HEAT TREAT

NAME: KEEL TRUSS HULL STA.4 - STA.5

DWG NO. J 288045

PARTS LIST PER ASSY

REQUIREMENTS PER AIRPLANE

MAT.

FINISH CODE
- AN-QQ-C TREATMENT
- ALUMINIZED PRIMER
- ALUMINUM PLATE

GP-GREEN PRIME

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
L	TRACED	1-9-36	THOMAS
M	CHANGE -24 TO -24 AT STA 5.25	5-30-36	THOMAS
N	ADDED -28 & -33 ASSYS TO	6-20-36	[illegible]
O	ADDED -29 & -33 ASSYS TO	1-15-42	[illegible]
P	CHANGED AN 442E-3 & TO AN 442-08 AT STA'S 5.25 & 5.50 & STA 5.75 & 6.0 RIVETS 3 PER STA (ADD NOT CHG.)	5-4-42	[illegible]
Q	ADDED INCH STIFFENER -28 IN B/M -28 (2) REQ'D ADDED AN 442-06 & TYPICAL EXCEPT NOTE - AT B/M 1 REQ'D	4-14-42	[illegible]
R	-28 WAS -18 & -41 WAS -28	5-12-43	[illegible]
S	DIM 5 1/4 WAS 4 3/4 - 12 3/4 WAS 6 1/4 WAS 5 1/4 - 24 3/4 WAS 5 3/4 - 33 1/4 WAS 4 1/4 & 5 3/4 WAS 5 1/4 - 25 1/2 WAS 5 3/4, 7 1/4 WAS 7 1/8 ADD RR 1 REQ'D & 2 REQ'D, M.T. CHG. NEG.	5-12-43	[illegible]

E.O.# A28616

E.O.# W-30328A

E.O.# A45946

E.O.# M48844

INCORPORATES BULKHEAD CHANGE P.O.W.-1 P.O.W.-2 P.O.W.-3

CO "SIXTY" CO "TWENTY"

SECTION C-C - F.S. TYPICAL FOR STA. 5.25 - 5.50 - 5.75

SEE SECT. C-C DRWG. 28B045 RIVET SPACING IDENTICAL EXCEPT FOR DIMENSIONS IN □

AN442-D6 ALL RIVETS

(8) ANGLE 3½ x 3½ x 5/16 ALCOA DIE K-5401

(9) ANGLE 3½ x 3½ x 5/16 ALCOA DIE K-5401

(7) ANGLE 3½ x 3½ x 5/16 ALCOA DIE K-5401

ALLOW GAP FOR .091 on 355A33Y SHEETS .865 +.040 on -0 A33Y

(2) ANGLE - LEFT

(3) ANGLE - RIGHT

1½ x ½ GAGE ALCOA DIE K-1298

(4) WEB .050 SHEET EXTENDS FROM STA. 5 TO STA. 6

VIEW D-D

AN442-D8 RIVETS (16 REQ.)

AN442-D6 (28 REQ.)

AN442-D8 (5 PLACES)

AC485-D4

22 F SIR CLIP

(40) BELTFRAME PLATE .091 ALCLAD 4748T

.064 SHEET

SLOT FOR GUSSETS

DETAIL OF -24 & -34

AN442-D8 (20 REQ.)

AN442-D6 (18 REQ.)

(41) BELTFRAME PLATE .091 ALCLAD 4748T

STA 5.75

STA 5.50

STA 5.25

STA 6.0

BULKHEAD WEB ALLOWANCE

SEE DETAIL (34)

SEE DRWG. 28B055

AN442-D8 (6 RIVETS @ 9 RIVETS)

AN442-6

(6) GUSSET .030 SHEET

SEE DRWG. 28B1100 FOR BULKHEAD 5 - 6

28B018-D5

SHEET EDGE ????

(34) SEE DETAIL

BULK'H'D. WEB ALLOWANCE

AN442-D8 - 5 RIVETS SEE DRWG. 28B084

AN442-D8 - 10 RIVETS

AN442E-6

9 EQUAL SPACES

AN442-D5

(23) GUSSET .060

(17) L.H. (33) R.H.

(16) L.H. (32) R.H.

(15) L.H. (31) R.H.

RIVETS EQUALLY SPACED AS SHOWN

AN442-D5 SEE STA "C" FOR SPACING

(5) GUSSET - .030 SHEET

TYPICAL RIVET SPACING IN VERTICAL & DIAGONAL WEB STIFFENERS WITH END RIVET ½ FROM EDGING ANGLE.

RIVETS EQUALLY SPACED AS SHOWN TYPICAL FOR ALL SPACES BETWEEN STIFFENERS

AN447-D6

(N) (35)

(14) L.H. (30) R.H.

(29) L.H. (29) R.H.

AN442-D5 ALL RIVETS ALONG TOP & BOTTOM EDGES SPACED EQUALLY AS SHOWN IN EACH GAP BETWEEN WEB STIFFENERS

(7) L.H. (20) R.H.

(8) L.H. (21) R.H.

(9) L.H. (28) R.H.

(18) L.H. (28) R.H.

(11) L.H. (27) R.H.

(26) R.H. (10) L.H.

KEEL SECTION TOP EDGE

KEEL SECTION BOTTOM EDGE

WEB BOTTOM EDGE

SEE DETAIL B

ALL WEB STIFFENER RIVETS MARKED ☒ ARE AN442-D6 OTHER WEB STIFFENER RIVETS ARE 28B018-D5

STEP

BASE LINE

10 25/32 20 25/32 10 25/32 20 25/32 10 25/32

83 1/4 STA. "5" TO STA. "6"

FORM RIVET HEADS AS SHOWN

STA 5 ONLY (REF) (23) (4) REF

SECTION A-A - F.S. TYPICAL FOR STA 5.6

AN442-D6

2½ on-28 2½ on-19

(19) BELTFRAME PLATE .064

(36) PLATE .080

DETAIL 'B' - TYPICAL FOR STA. 5.25, 5.50, 5.75

WEB STIFFENERS

1. PARTS NOS. -19, -11, -10, -13, -14, -10, -15 - 16 - 17 TO BE 5 x 3 1/4 x 1 7/16 MILLS ALCOA DIE K-5401
2. ANGLE WHERE NECESSARY
3. OUTSTANDING LEG TO BE TRIMMED 30°
4. PART NO -35 TO BE 13 3/4 x 8.070 ANGLE DIE K1288

FINISH CODE

Z	ANODIC TREATMENT
P	1-22 PRIMER
AP	ALUMINIZED PRIMED
C	CADMIUM PLATE

S.P. STANDARD Parts Identification Spring 1941

C-#91876

-41	2	4	4	4	2	2			
-36					3	3			
-35	2	2	2	2	2	2			
-34	1	1			1	1			
-33	1	1			1	1			
-32	1	1			1	1			
-31	1	1			1	1			
-30	1	1			1	1			
-29	1	1			1	1			
-28	2	2	2	2	2	2			
-27	1	1			1	1			
-26	1	1			1	1			
-25	1	1			1	1			
-24	1	1	1	1	1	1			
28B056	1	1			1	1			
28B055-1									
28B055	1	1			1	1			
28B049-1									
28B049	1	1			1	1			
28B013-D5									
AC485-D4-6									
AN442-D8									
AN442-D6									
AN442-D5									
28B038	1	1	1	1	1	1			
-23									
-22									
-21	1	1			1	1			
-20	1	1			1	1			
-19	1	1			1	1			
-18	1	1			1	1			
-17	1	1			1	1			
-16	1	1			1	1			
-15	1	1			1	1			
-14	1	1			1	1			
-13	1	1			1	1			
-12	1	1			1	1			
-11	1	1			1	1			
-10	1	1			1	1			
-9	1	1			1	1			
-8	1	1			1	1			
-7	1	1			1	1			
-6	1	1			1	1			
-5	1	1			1	1			
-4	1	1			1	1			
-3	1	1			1	1			
-2	1	1			1	1			
-1	1	1			1	1			
28B054	1	1			1	1			

12 ½ on 11 ½ on 1 TO 11

FINISH: Z - P - 26F - AN-S ON P.B.Y.-1 SPECIFICATIONS ON P.B.Y.-3 AND FUTURE

25 ½ on

NOTE: C-#70496 - 25 ½ ON - 355 A33Y FOR PB Y53 WITH PRE 3580 BELTRAIL
C-#70496 - 1 TO 24 - 550 A33Y " " " BUILT-UP BELTRAIL

REPLACES		APPROVED	DATE							
REPLACED BY		8.52	1-8-36							
LIGHT ON SWITCHING RELAYS ...		CHG. NO.	SHT. NO.							
OTHERWISE SPECIFIED		SCALE 1" = 1'-0"								
		6" = 1'-0"								
		AC								
NAVY NOTED		NOTED		NOTED		NOTED		NOTED		
MATERIAL		SPEC.		HEAT TREAT		FINISH		SHAFT	CHECK	STAMP
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.		NAME		KEEL TRUSS HULL - STA. 5 - STA. 6				DWG. NUMBER		
ST AMP PT. NO. SHOWN SHOWN								SIZE J	CODE	28B056

ALL AL ALLOY SHEET SPEC. 4276-10 (CONDITION T) ALLOY 24-T EXCEPT AS NOTED
ALL AL ALLOY EXTRUDING SPEC. 4040 (CONDITION T) ALLOY 24-T EXCEPT AS NOTED
HEAT TREAT ALL CONDITION & MATERIAL PER SPEC. 4026 (COVER T)
RIVETS AL ALLOY EXCEPT AS NOTED

H 56

R 28B056

STA 66 — STA 64 — STA 62 — STA 6 — STA 7 — STA 68

FOR HEEL TRUSS CONNECTION SEE DWG 288072

RIVET SPACING TO BE AS SHOWN ON 288063 — AN442-DB-14-5 RIV. — 288063 FITTING — AN442-DB-10 RIV

BL'HD. WEB & ALLOWANCE

3 ANGLE - LEFT
4 " - RIGHT
1 1/2 x 1 1/16 x .050 BULB ALCOA DIE # K-1208

2 WEB .030 EXTENDS FROM STA. 6 TO STA. 7

.066 - 555 A35 Y/S - 560 A35 Y

FROM STA 6 TO ANGLE REAR FACE

.076 GW-0 & -550 A35 Y/S
.091 GW - 555 - 555 Y/S - 560 A35 Y

AN442-DB

30 SEE DETAIL

ANGLE # K-560 — 72 L.H. — 73 R.H. — -550 & -555 A35 Y/S

30° CUT THIS LEG

16 L.H. 44 R.H.
15 L.H. 43 R.H.

AN442-DS — AN442-DB

33 GUSSET .030 BOTH SIDES

24 PLATE .030

21 L.H. 49 R.H.

50 RH 22 LH — 31 52 GUSSET .030 BOTH SIDES — 32 34

AN442-DS RIVETS SPACING TYPICAL FOR ALL GUSSETS

SEE SECTION 'A-A' DRWG. 288056

SEE DWG 288050 FOR BULKHEAD 6

SHEET EDGE .078

25 L.H. 51 R.H.

RIVETS EQUALLY SPACED TYPICAL FOR ALL GAPS

20 L.H. 48 R.H.

8 L.H. 36 RH — 7 L.H. 35 RH — 9 L.H. 37 R.H.

SEE SEC. C-C DRWG. 288056

FOR RIVET SPACING SEE SECT C-C DRWG 288056

SEE DETAIL C

AN442-DS

RIVETS EQUALLY SPACED AS SHOWN

18 L.H. 46 R.H. — 17 L.H. 45 R.H.

AN442-DC GW-0 & -550 A35 Y/S — AN442-DB GW-550 & -555 A35 Y/S

19 L.H. 47 L.H.

AN442-DS — AN442-DB

50° CUT EACH LEG OF ANGLE

68 L.H. 69 R.H. -550 A35 Y/S — ANGLE # K-560 — 70 L.H. 71 R.H. -555 A35 Y/S

AN442-DS — AN442-DS

KEEL SECTION TOP EDGE — BOTTOM EDGE — WEB BOTTOM EDGE

TYPICAL RIVET SPACING IN VERTICAL & DIAGONAL WEB STIFFENERS END RIVETS 5/8 FROM EDGING ANGLE

-68 & -69 ARE JOGGLED OVER 288GW-30 & -31 PROJECT FOR -550 A35Y

BASE LINE

10 3/8 — 20 — 10 3/8 — 20 1/4 — 10 3/8 TOTAL LENGTH STA. 6 TO STA 7

INCORPORATES CHANGE 1.05 / 1.10 / 1.15 / 1.20

LET	ALTERATION	DATE	BY
U	TRACED	8-26-47	BVS
V	INCREASED CLEARANCE B. FOR SEAT	12-22-47	
W	POINTS BY OMITTING "W & X"		
W	ADDED B ADDITIONAL "SEAT"	4-7-48	Smith
	RIVETS SHOWN -USE A.N. E-10 RIVETS		
	CHANGED 6 STA RIVETS IN -6 TO 4 STA RIVETS		
	ADDED A.N. -442 REINFORCEMENT ON TOP OF -30 CLEARANCE-MENT BY STA 6.6 ADDED		
	AN CLOSE PLATE		
K	ADDED -555 A.N.D. SECT. F-F	4-28-48	Hall
Y	ADDED -66 (FROM STA 6 TO STA 7) SHOWN - COVER PL. AND FILLERS	4-28-48	Hall
Z	ADDED -78 THRU -79 WELL X	4-28-48	Hall
	ADDED -80 & -81 - ADDED -555 & -555 A35 Y/S		
AA	AN442-DB TO AN442-DC 14-6B RIV.	10-21-48	CEH
	-550 A35 Y/S 2.0 in. 67 WAS 2.04 - 61		
	ADDED NOTE:		
BB	AN442-DC CALLED ON -28-18-64-66	10-21-48	CEH
BC	ADDED SEC. E-K & -660 A35Y	10-21-48	
BD	ADDED -27 TO -28 AS SHOWN (WT 13.2 WAS 13.7)	10-21-48	
BE	REVISED STA 6.6 & 6.8 CENTER LINES TO REMOVE INTERFERENCE (SEE W.C.C.N.)	11-12-48	
BF	AT STA 6.8 & 7.0 ADDED TWO 7/16 DIA HOLES IN EA. SIDE OF WEB AT STA 7.340 ADD TWO 3/4 DIA. -548 ANGS TO SUIT DIM.	1-21-49	

28B700-29 (REF)

1 3/4 x .050 BULB ANGLE ON FWD. SIDE OF 28B700

JOGGLE 1 1/16 -28 ONLY

ANGLE LEFT 27 — " RIGHT 28 — STA 7

1 3/4 x .070 ALCOA DIE # K-1208

SPACE FOR -560 ASSY. 3/4 FWD. OF 1.534 & -555 ANGS

HULL BOTTOM

BUILT'D WEB ALLOWANCE

2200/3006

38 R.H. 10 L.H.

H L.H. 39 R.H.

11 — 13 L.H. 41 R.H.

12 L.H. 40 R.H.

14 L.H. 42 R.H.

AN442-DS — AN442-DC

AN442-DS

AN442-DS

AN442-D4 RIVETS PLACED APPROX. AS SHOWN.

29 WEB REMOVED AS 030

STEP

SEE DETAIL D

BASE LINE

10 3/8 — 20 3/8 — 10 3/8 — 20 3/8

SEE DWG 288050 FOR BULKHEADS

23 SPACES @ 6 3/8

AC372-1032
AN310-10-B
05741-100-3
288056-36
288067-58
AN425-D4
AN442-D4
288067-2
288067-1
288067-3
288067-4
288067-5

SECT. KK (FOR -560 ASSY) SCALE 12" = 1'0

AN310-10-B (REF) AC372-1032 — 05741-100-3 — 2.2F312 — 2885680-11

AN442-DS — AN442-DC IN -550 ASS'Y ONLY

DETAIL C TYPICAL FOR STA. 62 & 64

FWD.

1/2 (REF) — 1/4 FOR ALL A35 Y/S EXCEPT -555 — 13/16 FOR -555 A35 Y/S (560 ASSY)

25 BELTFRAME BOTTOM PLATE .064, FOR -0 ASS'Y.

58 .091 PLATE, FOR -550 ASS'Y.

288056-36 FOR -555 ASS'Y (560 ASS'Y.

-2 WEB (REF)

-32 — 34 GUSSET (REF)

6" (REF)

SECTION B-B

3/16 AT STA. 6.6 & 6.8 FOR -0 & -550 A35 Y/S. TYPICAL
1 3/16 AT STA. 6.6 FOR -555 A35 Y/S -560 ASSY.
5/16 AT STA. 6.8 FOR -555 A35 Y/S -560 ASSY.

3/16 GW-26 — 7/16 GW-58

3/16 GW-26 — 1/32 AV-58

2 3/4 GW-26 — 4 5/8 GW-59

AN442-D6, 5 RIVETS IN -26, 6 RIVETS IN -59

26 BELT FRAME BOTTOM PLATE .051, AT STA. 6.6 & 6.8 FOR -0 ASS'Y. AT STA. 6.8 ONLY FOR -550 & -555 ASS'Y'S/-560 ASSY

58 .102 PLATE, AT STA. 6.6 FOR -550 ASS'Y.

288056-36, AT STA. 6.6 FOR -555 A35 Y/S/-560 ASSY
USE AN442-D6 IN 288056 FOR -555 A35 Y/S/-560 ASSY

DETAIL D FOR STA. 6.6 & 6.8 AS NOTED.

AN442-D6 — AN442-DC

(REF) 15 L.H. 43 R.H.

AN442-D6 ALL RIVETS ALONG TOP & BOTTOM EDGES SPACED EQUALLY AS SHOWN IN EACH GAP BETWEEN WEB STIFFENERS

6 EQUAL SPACES

AN442-D6

AN442-DC

AC372-1032 (6) 560 ASS'Y — AN310-10-B(6) — 55 — K — K

STA 66 — 30 (REF) — 3 (REF) — 4 (REF) — 2 WEB (REF)

STA 6.8 — 2 R.H.

6 — 77

FIRST SPACING AN 442-D3

K — K

SECTION E-E

53 .072 AL. ALLOY STRIP

54 — 39

SECTION F-F

56 .064 x 1/4 AL. AL. STRIP 2117 LONG-ASTRAIN 24 ST. SPACE WITH COUNT

2 (REF) — 29 (REF)

28 — 27 — 64 STA. 6.2

(12 RIVETS - AN442 D5 GW-0 A35 Y/S, AN442-D6 GW-550 & -555 A35 Y/S. & -560 ASSY.)

20 3/8 (-560 ONLY)

64 .091 PLATE, FOR -550 ASS'Y.

30 REINFORCING PLATE .064, FOR -0 ASS'Y.

67 .091 PLATE, FOR -555 ASS'Y. & -560 ASS'Y.

5/16 GW-30 & -66 — 1/2 GW-67

5/16 GW-30 & -66 — 7/8 GW-67

10 EQUAL SPACES 2 3/8 (-66) — 2 3/8 (-66) — 2 3/8 (-30 ONLY)

5/16 GW-30 — 3/8 GW-66 & -62

ALL DIMENSIONS NOT SHOWN FOR -30, -66, & -67 AT STA. 6.6 ARE THE SAME AS THE CORRESPONDING DIMENSIONS OF -5, -60, & -61 RESPECTIVELY.

NOTE: AN442-D6 THRU BLTFRAME @ STA. 6.6 & 6.8
AN442-DC THRU BLTFRAME @ STA. 6.6 & 6.8

ALL RIVETS MARKED * TO BE AN442-D6 OTHER RIVETS TO BE AN442-D5 GW-0 A35 Y/S.

ALL WEB STIFFENER RIVETS MARKED * TO BE AN442-D6 — OTHER WEB STIFFENER RIVETS TO BE AN442-D5

AN442-D6 6 RIV. — 1/2 GW-6, 7/8 GW-64 & -65. — 7/8 GW-6, 1 GW-64 & -65. — 5 3/8 GW-6, 6 3/4 GW-64 & -65.

AN442-D6 4 RIV. — 2 5/8 GW-6, 3 1/2 GW-64 & -65. — 5/8 GW-6 & -64, 7/8 GW-65. — 5/8 GW-6 & -64, 7/8 GW-65. — 1/4 GW-6 & -64, 1 1/8 GW-65.

64 .091 PLATE, FOR -550 ASS'Y.

6 BELTFRAME TOP PLATE .064, FOR -0 ASS'Y.

65 .091 PLATE, FOR -555 ASS'Y. & -560 ASS'Y. STA. 6.8

(AN 442 D6 - 12 RIVETS GW-550 & -555 & -560 ASS'Y'S.)

WEB MEMBERS
1. PARTS NOS. 7 & 8, 10 & 11, 12, 13, 14 & 15, 16 & 17, 19, 22, 55, 77 TO BE 3/4 x 3/4 x 1/16 ALCOA DIE # K-1401.
2. PARTS NOS. -20 TO BE 3/4 x 1/2 x .050 ALCOA DIE # K-5456
3. PARTS NOS. -21 & -23 TO BE 3/4 x 3/4 x .050 ALCOA DIE # K-1559
4. WEB MEMBERS TO BE JOGGLED WHERE NECESSARY.
5. OUT STANDING LEG TO BE TRIMMED -30°.

VIEW G-G

NOTE: -550 ASSY FOR PARTS WITH BUILT UP BELTFRAMES & -555 & -560 ASSY FOR PARTS WITH PRESSED BELTFRAMES

ALL PARTS PRIMED WITH EPW-6 GREEN PRIMER

AN425-D4

22 F312 CLIP ON PORT SIDE ONLY

PART	QTY	SIZE	MATERIAL
-77	1	2.5 x 1.5 x .064	24ST
-55	1	2.5 x 1.5 x .064	24ST
-22	1	2.5 x 1.5 x .064	24ST
-55	1	PER SK	24 SHEET
-20	1	PER SK	24 SHEET
-19	1	PER SK	24 SHEET
-17	1	PER SK	24 SHEET
-16	1	PER SK	24 SHEET
-15	1	PER SK	24 SHEET
-14	1	PER SK	24 SHEET
-13	1	PER SK	24 SHEET
-12	1	PER SK	24 SHEET
-11	1	PER SK	24 SHEET
-10	1	PER SK	24 SHEET
-8	1	PER SK	24 SHEET
-7	1	PER SK	24 SHEET
-6	1	PER SK	24 SHEET
-5	1	PER SK	24 SHEET
-4	1	PER SK	24 SHEET
-3	1	PER SK	24 SHEET
-2	1	PER SK	24 SHEET
-1	1	PER SK	24 SHEET

4 (REF) — 9 (REF)

SECTION H-H

FINISH:-
Z-P-28D -NWS ON PORT SIDE
Z-P-28D-NWS ON PORTS & STARB'D

TRIM TOP & BOTT — 55 REF

SECTION J-J

H 57

REPLACES		P.R.'s	J-22-47
REPLACED BY		APPROVED	DATE
LIST OF DEVIATIONS UNLESS OTHERWISE SPECIFIED		CALC'S	
		SCALE	1" = 1'-0"
AC		NAVY	NOTED
MATERIAL		SPEC.	
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.		STAMP PT. No. WHERE SHOWN	

REQUIREMENTS PER AIRPLANE	MAT.	PARTS LIST PER ASSY.	
NOTED	NOTED	NOTED	NOTED
		FINISH	

NAME: KEEL TRUSS HULL STA 6 - STA 7

DRAFT | CHECK | ENG.

OPP HAND

DWG. J 288067

INCORPORATES PBY-1 BU. NER. CHGS. # 1 TO 31 PBY-2 " " " # 31

C.O. 7586

E.O. 19061

E.O. 38041
E.O. A56699

LET	SUPPLIES & EQUIPMENT CLASSIFICATION ALTERATION	DATE	BY
G	TRACED	AUG 30	JFA
H	ADDED CUTOUT IN -26	9-3-41	
J	REPLACED 14 & -15 WITH -18 & -19 INCREASING B/M FOR -18 & -19 FROM 1 CA. TO 2 EA. ADDED -21 & -32 REPLACING -PBY-5 FOR PBY-5. ADDED -55 ASSEM. & PBY-5 CHG. NOTE.	11-11-42	
K	PARTS -26-3 WERE 30, FOR -34-3		
L	ADDED H.T. NOTE & RTL. NOTE PART NO. 34-36 PBY-1 & PBY-2		
M	EXCHANGED -28, -29, -31 & -32 FOR -18 & -19 (1 PIECE) WITH -33 -34, IN B/M FOR -55 ASSY. -18 & -19 U/EA WAS 1 EA. ADDED TO B/M -33 & -34 U/EA FOR -55 ASSY. REVISED MATL NOTE: TO READ "PART NOS. -4 TO -34 INCL. ETC. - - - (NOT "PART NOS. -4 TO -32 INCL. ETC. -). ADDED NOTE "CUTOUTS - - - - ONLY" NO WT. CHG.	9-17-43	

CUT-OUT FOR RUDDER LOCK CONTROL CABLES L.H. SIDE ONLY.

Q4305-D4 RIVETS EQUALLY SPACED AS SHOWN

VIEW 'A'

Q4305-D4

28BOTO CLIP

AN442-D4

SKIN

VIEW 'A'
TYPICAL MOUNTING

DETAIL - 30 SCALE 12"/1'-0"
MADE FROM AL ALLOY SHT (24ST) SPEC 47018 COND "T"

ROUND OFF CORNERS

CUTOUTS IN -14 & -15 ONLY

POINT OF TANGENCY BETWEEN DECK AND CHINE RADII

POINT OF TANGENCY BETWEEN CHINE RADII AND BOTTOM

HULL

STIFFNERS
PART NO'S -4 TO -34 INCL'S.
3/4 x 3/4 x .040 AL EXTR. ANGLE
ALCOA DIE "K-6240, H.T. SR-53.

CUT STIFFNERS AT ANGLES THAN SHOWN AND FIT ON ASSY

PART NOS - 2 & -3 ALCOA DIE NO. K6240. MATERIAL AL ALLOY 24ST. HEAT-TREAT NONE

FOR'D

STA	0	1	2	3	4	5	6
HULL	0"	0"	1"	1"	3"	3"	7 1/2"

STIFFENER INSTALLATION STA 7125
PORT SIDE
LOOKING FORWARD

FINISH:
2 - P - [illegible] ON PBY-1
2 - P - AL ON PBY-2 & FUTURE

C10496	-55	PBY-5	288-1000	1
C9187A	-55	PBY-5	288-4000	1
	-55	28B-MA	288-1000	1
	-55	28B-MG	288-1000	1
	-55	28-5-ME	288-1000	1
	-55	28-5-MN	288-1000	1
	-55	28-5-MA	288-5000	1
	-55	28-5-MB	288-6000	1

	-55	PBY-5A	2885500	1
	-55	28-5A-MA	2885500	1
	-55	28-5A-MB	2886000	1
	-55	28-5A-MC	2886500	1
	-55	28-5A-MD	2887000	1
	-55	28-5A-ME	2887500	1
	-55	28-5A-MF	2888000	1

L.C.W.

REPLACES 5-M-43
APPROVED DATE
REPLACED BY
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
SCALE "F" FULL "T" HALF
MATERIAL NOTED SPEC NOTED HEAT TREAT NOTED FINISH NOTED
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
STAMP PT. NO. WHERE SHOWN

NAME STIFFNER INSTAL. NULL - STA 7125

DWG NO. 288085

H 58

INCORPORATES
PBY-1 BU. AER. CHG. 9-31
PBY-2 " " 9-31

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
D	TRACED TO DATE	3-20-37	
H	ADDED CUTOUT IN -24	8-31-38	
J	ADDED -2,9 & -30 IN ASSY	7-14-39	
	OP. -22 & -23 ADDED AS FAIRING		
K	MAT. WAS CORR. AT -10 & -11		
L	REMOVED -14-15-28 & -29	5-17-40	

C.O. 7586
E.O. 28086
E.O. 30604

CUT-OUT FOR BUDDLE LOCK CONTROL CABLES L.H. SIDE ONLY

Q4305-D4 RIVETS EQUALLY SPACED AS SHOWN

VIEW A

$\frac{1}{4}$ AL ALLOY SHT (24ST) SPEC. 4 AND COND T
DETAIL -28

Q4305-D4

Q4305-D4

AN 442-D4

22 A 078 CLIP

VIEW A
TYPICAL MOUNTING

POINT OF TANGENCY BETWEEN DECK AND CHINE RADII

POINT OF TANGENCY BETWEEN CHINE RADIUS AND BOTTOM

KEEL LINE

℄ HULL

STIFFENERS
PART NOS -2-70-30 INCLUSIVE
$\frac{3}{16} \times \frac{3}{4} \times .040$ ALUM ALLOY EXTR ANGLE (24ST) COND T
ALCOA DIE K 6240 SPEC 1649 (24ST) COND T

CUT STIFFENERS $\frac{1}{4}$ LONGER THAN SHOWN AND FIT ON ASSEM.

SECTION	A-A	B-B	C-C	D-D	E-E	F-F	
ANGLE	0°	0°	1°	2°	4°	8°	

STIFFENER INSTALLATION STA. 7.375
PORT SIDE
LOOKING FORWARD

FINISH:-
2-P.-[illegible] ON PBY-1
2-P.-[illegible] ON PBY-2 & FUTURE

Q4305-D4			
AN 442-D4	66	66	66
A 2078	44	33	33
22A078-B4	44	33	33
21			
20			
19			
18			
17			
16			
15			
14			
13			
12			
11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			

-55	PBY-5A	28D6440	J
-33	PBY-5	2881000	
	PBY-4	2881000	
	PBY-3	2881000	
	PBY-2	2881000	
	PBY-1	2881000	
	PBY-1	48 20021	
-11	PBY-1	28 D 078	L
DASH		PART NO.	DWG

REPLACED	
REPLACED BY	
CALC. WT.	ACT WT.
SCALE	3"=1'-0"
AC	
NAVY	NOTED
MATERIAL	

REQUIREMENTS FOR AIRPLANE		
NOTED	NOTED	NOTED
SPEC.	HEAT TREAT	FINISH

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.

NAME: STIFFENER INSTALL. HULL: STA. 7.375

DWG NO. 288086

H 59

INCORPORATES
PBY-1 BU. AER. CHG. 8131
PBY-2 " " 891

SUPPLIES & EQUIPMENT CLASSIFICATIE			
LET	ALTERATION	DATE	BY
H	TRACED UP TO DATE	8-20-42	
J	REVISED -19, REROUTE L	10-1-42	
	1 per ship	"	"
U	ADDED CUTOUT IN -23	9-28-42	
K	ADDED -370 MACHINE-24	10-7-42	
	ADDED 281-380 MACHINE-22 & -23		
	ADDED -55 ASSEM.		
L	REMOVED -27, -28 & -29	1-15-43	

C.P. 7589

Ep. 50041

CUT-OUT FOR RUBBER LOCK CONTROL CABLES L.H. SIDE ONLY

04308-DS RIVETS EQUALLY SPACED AS SHOWN

VIEW A

POINT OF TANGENCY BETWEEN DECK AND CHINE RADIUS

POINT OF TANGENCY BETWEEN CHINE RADIUS AND BOTTOM

KEEL LINE

E HULL

DETAIL OF -26 FILLER
24 ST. ALCLAD SHT ALLOY
SPEC 4 AND COND.T

VIEW A
TYPICAL MOUNTING

STIFFENERS
RIVET NOS 1-6 TO -25 INCLUSIVE
⅜ x ⅜ x 1.088 AL. ALLOY EXTD. ANGLE (2630)
ALCOA DIE, K-6280 - SPEC 4649 - CONDN. - H.T. 3853 (COND.T)

CUT STIFFENERS ½ LONGER THAN SHOWN AND FIT ON ASSEM.

SECTION	A-A	BB	CC	DD	E-E	FF
ANGLE	0°	0°	8°	3°	6°	9°

STIFFENER INSTALLATION STA. 7.625
PORT SIDE
LOOKING FORWARD

FINISH:
2-P-[redacted] ON PBY-1 & PBY-1
2-P-[redacted] ON PBY-2 & FUTURE

FINISH CODE	
A	[redacted]
B	[redacted]
C	[redacted]

| SYS | | |

INCORPORATES
PBY-4 SU. AER. CHG. N171
PBY-2 " " 891
C.O. T891

185 DAYS
EO. 38004
EO. A3251

SUPPLIES & EQUIPMENT CLASSIFICATIONS			
LET	ALTERATION	DATE	BY
G	TRACED UP TO DATE	7-25-39	RH
H	CHANGED DWG NO. -138 TO -8	2-5-41	
J	ADDED CUTOUT IN -20 FOR RUBBER LOCK CONTROL CABLES	4-6-42	
K	ADDED -22 & RAIVETS -20	11/14/42	CL
	ADDED -24 & RIVETS		
	ADDED -24-25 & RIVETS -18 & -19		
L	REVISED PER EO. 38004	8-17-44	
M	-2,-3-4-5 CHANGED TO 24ST CONDT WAS 24SR COND A	5-1446	

CUT-OUT FOR RUBBER LOCK CONTROL CABLES L.H. SIDE ONLY

$6\frac{63}{64}$ $6\frac{63}{64}$ $7\frac{3}{64}$ $7\frac{3}{64}$

Ⓜ $7\frac{1}{16}$ LH. $7\frac{1}{16}$ RH.

Ⓜ $7\frac{1}{16}$ LH. $6\frac{15}{16}$ RH.

-16 LH -17 RH

VIEW A

-18 LH -19 RH

-20 LH

-21 RH

-14 RH

-14 LH -15 RH

-12 LH -13 RH

Q4303-04 RIVETS EQUALLY SPACED AS SHOWN

$39\frac{1}{2}$

-10 LH -11 RH

$45\frac{53}{32}$

$46\frac{3}{32}$

POINT OF TANGENCY BETWEEN DECK AND CHINE RADII

-8 LH -9 RH

$7\frac{1}{2}$ R.

-6 LH -7 RH

POINT OF TANGENCY BETWEEN CHINE RADIUS AND BOTTOM

-4 LH -5 RH

-2 LH -3 RH

-2 LH -3 RH

6

6

19

$16\frac{3}{8}$

KEEL LINE

℄ HULL

DETAIL OF FILLER -22
$\frac{1}{16}$ AL ALLOY 3HT (2457) SPEC 47A10 COND T

Q4303-04

Q4303-04

-23 SEE DETAIL.

SKIN

AN442-04

AD8078 CLIP

VIEW A
TYPICAL MOUNTING

STIFFENERS
PART NO'S -8 TO -25 INCLUSIVE
$\frac{1}{2} \times \frac{1}{2} \times .040$ ALUM ALLOY EXTD. ANGLE (2430)
ALCOA DIE K-6240 SPEC 46A9 COND A - HT SP 53 COND T

CUT STIFFENERS $\frac{1}{4}$ LONGER THAN SHOWN AND FIT ON ASSEM.

PART NO'S -2,-3-4-5. $\frac{1}{2} \times \frac{1}{2} \times .040$ ALUM. ALLOY EXTRUDED ANGLE (24ST) ALCOA DIE K6240 SPEC 46A9 - CONDT. Ⓜ

SECTION	A-A	B-B	C-C	D-D	E-E
ANGLE	0°	0°	2°	4°	10°

STIFFENER INSTALLATION STA 7875
PORT SIDE
LOOKING FORW'D

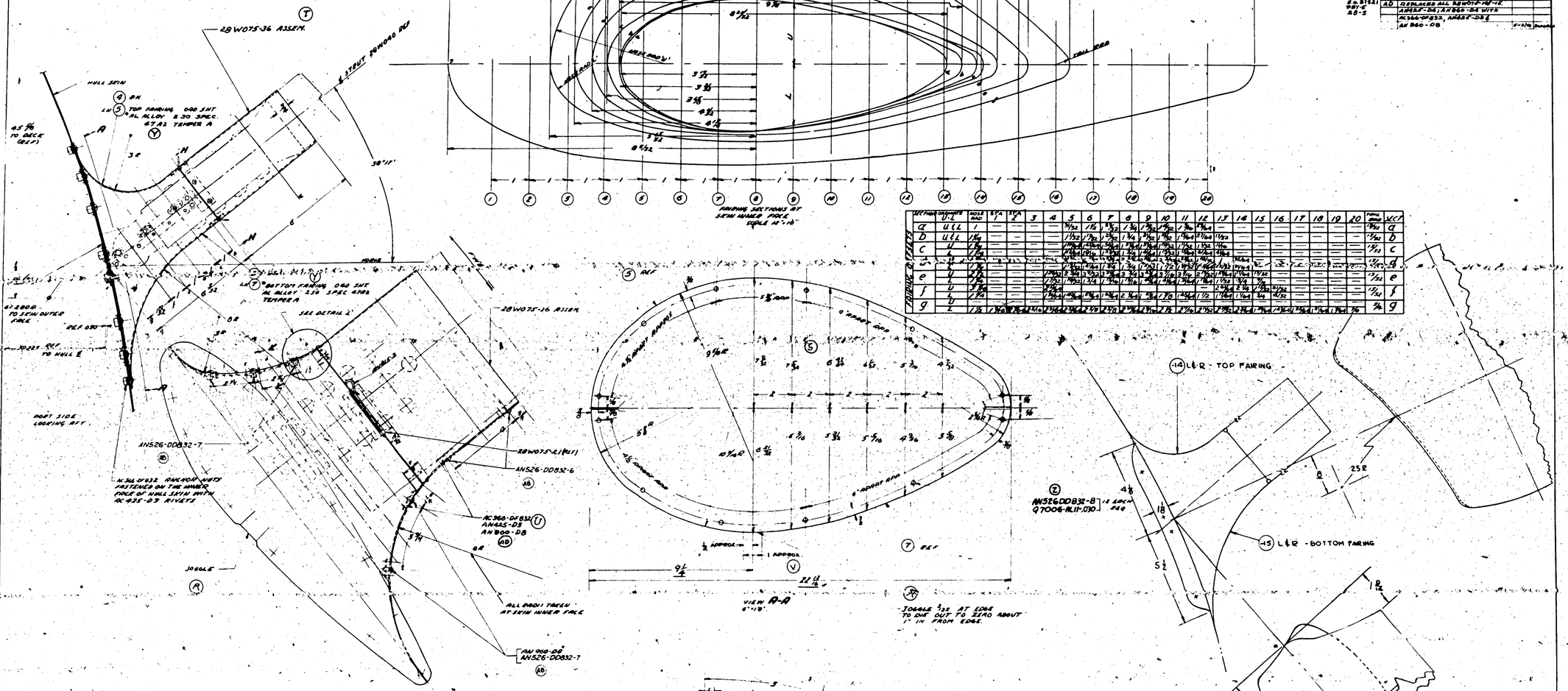
FINISH:-
2 ℄-P on XP3Y-1 & PBY-4
2 ℄-P on PBY-2 & FUTURE Ⓐ

288063-305						24	23	23		
288039						21	21			
-7										
-20										
-19										
-18										
-17										
-16										
-14										
-13										
-12										
-11										
-10										
-9										
-8										
-7										
-6										
-5										
-4										
-3										
-2										
-1										

-25	PBY-5A	288000	1							
	24-5	288000								
-24	PBY-5B	288000	1							
-23	PBY-5	288000	3	2	2	2	2			
	PBY-4	288000								
	PBY-3	288000								
	PBY-2	288000								
	PBY-1	288000		Q4303-04						
	1P3Y-1	288001		AN442-04						

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
e	FAIRED		
P	AC 346-DF832, WAS 4-9311-DF832		
M	Y DIM. SHALL BE LOCATED FROM -1 & 7	"	"
S	CHANGE DIM. IN SEC. B-B	"	"
T	28WO7F-36 ASSEM. REPLACES 208330-5, -9 -10 -11 -12 -13 -14 -15 -16 & -17 & -19.	"	"
U	28WO7S-46-15 REPLACE 208330-46(-16-46 & RQD)(-15 & RQD)	"	"
V	CHANGED 1" DIM. OF 208320-13 IN VIEW A-A TO APPROX. 1" & CHANGED LOCATION TO APPROX. 1/4 ON EACH SIDE OF 9.0 DIM.	"	"
W	ADDED VIEW SHOWING DIMENSIONS FOR XPBY-5 ONLY	"	"
X	ADDED -18 & -19 REQ. & -15 & -16 REQ. & -20 & -21 REQ.	"	"
Y	CHGD MAT SPEC AL ALLOY -14 & -20 TO 2024-T3	"	"
Z	AN 5506-DD832-8 WAS AN526-DD832-8 & AN 5506-DD832-6 WAS AN526-DD832-6	11-17-41	DUN
AA	2450 WAS 24ST QM-13	11-17-41	DUN
AB	REPLACED AN515-DD8-5 7 REQ'D WITH AN526-DD832-6 2 REQ'D & AN526-DD832-7 5 REQ'D	11-17-41	DUN
AC	-4L-FR-DA-12-S SPEC 4340 WAS 2330 SPEC 4340	3-15-41	FISHER
AD	REPLACED ALL 28WO7F-14-15, AN432-D4, AN960-D4 WITH AC366-DF832, AN432-D3 & AN 960-D8	6-2-42	Bennett

E.O.18804
E.O.18864
E.O.17810 PBY-1,2,3,4&5
E.O.18734
E.O.37521 XPBY-5 & PBY-5A



SEC FROM STA	DIMENSION D-1	RADII RAD	STA 1	STA 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	FINAL RAD	SEC
a	U&L	1	—	—	—	—	11/32	1/2	1 5/32	1 3/4	1 31/32	2 3/16	2 13/64	—	—	—	—	—	—	—	—	—	11/32	a
b	U&L	1 1/4	—	—	—	—	11/32	1/2	1 5/32	1 3/4	1 31/32	2 3/16	2 13/64	2 1/32	—	—	—	—	—	—	—	—	11/32	b
c	U	1 1/4	—	—	—	—	11/32	1/2	1 5/32	1 3/4	1 31/32	2 3/16	2 13/64	2 1/32	—	—	—	—	—	—	—	—	11/32	c
d	L	1 1/4	—	—	—	—	11/32	1/2	1 5/32	1 3/4	1 31/32	2 3/16	2 13/64	2 1/32	—	—	—	—	—	—	—	—	11/32	d
e	L	1 1/4	—	—	—	—	11/32	1/2	1 5/32	1 3/4	1 31/32	2 3/16	2 13/64	2 1/32	—	—	—	—	—	—	—	—	11/32	e
f	U	1 1/4	—	—	—	—	11/32	1/2	1 5/32	1 3/4	1 31/32	2 3/16	2 13/64	2 1/32	—	—	—	—	—	—	—	—	11/32	f
g	U	1 1/4	—	—	—	—	11/32	1/2	1 5/32	1 3/4	1 31/32	2 3/16	2 13/64	2 1/32	—	—	—	—	—	—	—	—	11/32	g
	L	1 1/4	1 3/4	2 3/4	3 3/4	4 3/4	5 3/4	6 3/4	7 3/4	8 3/4	9 3/4	10 3/4	11 3/4	12 3/4	13 3/4	14 3/4	15 3/4	16 3/4	17 3/4	18 3/4	19 3/4	20	3/4	g

BASIC DIM	1	5	5	5	5	5	5	5	5															
AN526-DD832-6 & -8 Q7006-AL11-030	2	2	2	2	2	2	2																	
AN960-D6	0	0	0	0	0	0	0																	
AN960-D8	0	0	0	0	0	0	0																	
AN415-3	2	2	2	2	2	2	2																	
AN425-D3	2	2	2	2	2	2	2																	
AN430-D3	2	2	2	2	2	2	2																	
AC425-D4	2	2	2	2	2	2	2																	
AC425-D3	2	2	2	2	2	2	2																	
94305-D3	2	2	2	2	2	2	2																	
AC366-DF832	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		

-R	28 SHALCO	28N1550	1																					
-L	28 SHALCO	28N1550	1	28WO7S-36	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
				28A320-13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
				-14																				
-D	PBY-5	28N4001	1																					
-K	PBY-5	28N4001	1																					
-Sa	XPBY-5	28W4001	1																					
-Sb	XPBY-5	28N4001	1																					
-J	PBY-4	28N4001	1	-7	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	PBY-4	28W4001	1	-8																				
	PBY-4	28W4001	1	-9																				
-J	PBY-3	28N4001	1	28A320-9	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	PBY-3	28W4001	1																					
-J	PBY-2	28N4001	1	-14 L																				
-J	PBY-2	28W4001	1	-15 L																				
-J	PBY-1	28N4001	1	-16 L																				
-J	PBY-1	28W4001	1	-16 L																				

FINISH
E-P ON-4-5-6-7-12 & -13
EXPY LOWR ASSY PBY-1 ONLY
EXPY COMP ASSY PBY-2 & FUTURE

REPLACES																								
REPLACED BY																								
LIST ON DRAWING SPACED 1/4 OTHER SPECIFIED																								
SCALE 1/2																								
AC																								
NAVY AN710																								
MATERIAL																								
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.																								

RCD 10-28-41
APPROVED
DATE 322 / 188
ALL M'L
O.N. MODEL NEXT ASSY REQ. ST'D PART
REQUIREMENTS PER AIRPLANE MAT
AN710 38-83 NOTED 9-11-41
SPEC HEAT TREAT FINISH
NAME FAIRING - HULL - WING REAR STRUT
DRAFT CHECK ENGR
DWG NAME 208320-1
SIZE J
DWG NO 208320
REV R

H 62

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
K	TRACED	5 21 57	V I B
L	ADDED - PART NOS. -32 THRU -35		
M	ADDED - 47 G - AB REPLAC- ING -38 & -39 FOR PBY-1		
N	MATLWAS 3650 - COND A.		

E.O. 16968

END - 47 & 48

9 1/4

45°

TRIM ON INSTALL. OF 288A126

FOR UPPER HALF OF BELTFRAME ON PBY-1 & FUTURE SEE DWG 288B643

CUT OFF AT THIS POINT AT INSTALLATION OF 288B643 PBY-1, 2, 3, & 4 ONLY

AL ALLOY SPEC 46A9 COND T (24ST) BULB SECT. 1 1/2 x 3/16 ALCOA DIE K-1559

58 11/32 R.

LH (38) CHINE ANGLE PBY-1, 2, 3, & 4
RH (39)

POINT OF TANGENCY OF DECK & CHINE RADII

6 5/8 R

LH (47) CHINE ANGLE FOR - 85 ASSY
RH (48) (M)

SEE SECTION A-A DRWG 288640

A

4 13/32

3/4

1/2

SEE SECTION E-E DRWG 288640

E

90°

A 90°

(36) LH
(37) RH } .030 SHEET AL ALLOY (2460) T. TEMPER (COND. T)

7 3/8 R

E

1/4 MINIMUM

MINIMUM

VIEW G - PBY-2 & FUTURE TYPICAL TOP & BOTTOM

& SHIP

WALKWAY STRINGERS

SKIN INNER FACE

(-3) REF

99 11/32 R

RIVETS IN TOP & BOTTOM EDGING ANGLES TO BE EQUALLY SPACED 1 1/2 MINIMUM IN EACH SPACE BETWEEN WEB STIFFENERS

LH (16) AL ALLOY (24ST) SPEC 47A10 COND T
RH (17) REAR DIAGONAL BRACE
SEE SECT C-C DWG 288640

(-2) WEB - .025 AL ALLOY SHT (24-ST) SPEC 47A10 COND T } -0.933" x 6.16"
- AN442-D6 ALL RIVETS EXCEPT OTHERWISE NOTED

(-46) WEB .030 AL ALLOY SHT (24ST) SPEC 47A10 COND T } 53 1/2" OVALL

LH (-14)
RH (-15) REAR DIAGONAL BRACE SEE SECT D-D DRWG 288640
LH (-4) RH (-5) FRONT TOP
(-6) (-7) REAR TOP
LH (-10) RH (-11) FRONT BOTTOM
(-12) (-13) REAR BOTTOM

10 1/16

9 11/32

9 1/2

(34) LH
(35) RH

BOTTOM SLOPE

F

(32) LH
(33) RH

4 1/2

(30) LH
(31) RH

(28) LH
(29) RH

(26) LH
(27) RH

12 R

C

D

VIEW F-F

90°

AN442-D6

30° WITHIN THESE LIMITS

7 1/2

5/8

CLIP 288070 SEE VIEW F-F DRWG 288640

SEE SECTION C-C DRWG 288640

SKIN INNER FACE

5 5/8

5 1/2

19 21/32

15 13/16

38 23/32 R

WEB STIFFENERS
AL ALLOY SPEC 47A10 COND T (24ST)
1. PART NOS -18 TO -35 INCLUSIVE
TO BE 3/16 x 3/16 x .040 EXTRUDED ANGLE DIE # K 6240
PARTS -14, -15, -16 & -17 (24ST)
TO BE 5/8 x 1/2 x 3/16 EXTRUDED ANGLE DIE # K-9876
2. ALL WEB STIFFENERS TO BE CRIMPED TO OUTSTANDING LEG TO BE TRIMMED 30° EXCEPT -26, -27-528 33 UPPER END SEE C-C DWG 288640

3 PARTS -32-33-34-35 TO BE PLACED RADIALLY FROM CENTER OF BOTTOM CURVATURE
R: 38 23/32

5/8 x .060 AL ALLOY (2024) SPEC 46A9 COND T DIE # 9876 PBY-1 ONLY
-4-5-6-7-10-11-12 & -13

5/8 x 4 5/8 x 1/16 AL ALLOY (6061) SPEC 46A9 (COND T) DIE # K 13624 PBY-2 & FUTURE
-4-5-6-7-10-11-12 & -13

(N)

- KEEL LINE -

SEE SECTION D-D DRWG 288640

FRAME BOTTOM SLOPE SAME AS KEEL SLOPE (6 1/8") IN ALL SECTIONS PARALLEL TO KEEL

RIVETS IN VERTICAL & DIAGONAL WEB STIFFENERS TO BE EQUALLY SPACED AS SHOWN WITH END RIVETS 1/4 FROM EDGING ANGLE

SEE SECTION B-B DRWG 288640

22 1/8 REF

6 3/16

45 15/16

57 41/64

SEE SECTION L-L & NOTE DRWG 288625

8 ANGLE SLOPE

L

4 7/16

M

24 31/32

13 1/2 R

95761-K-5-LS

288B391

(22) LH
(23) RH

(24) LH
(25) RH

(20) NOT PORT
(21) TWO PORT FWD STBD

(43) NO T FWD STBD
(44) TWO FWD STBD

(18) NOT PORT
(19) TWO PORT
(41) NOT STBD FWD STBD
(42)

(-8) GUSSET - XPBY-1 ONLY
FOR PBY-14 FUTURE SEE 288B626-55

(-9) GUSSET - XPBY-1 ONLY
FOR PBY-14 FUTURE SEE DWG 288B526-54

SEE SECTION 'B-B' DRWG 288640

288A212 CLIP ON STARBD SIDE ONLY

AC 426 - D4

L 17/32

FORWARD

SECTION M-M

84 1/2

PORT SIDE - LOOKING FORWARD
SEE DRWG 288640 FOR SECTIONS: A-A B-B C-C D-D E-E

288620-49
288620-51
QQ-A-225/8
AN442-D5
AN442-D6
AC426-D4
AN310 DL-7
AN315 D6
288B526-55
288B526-54
288070
288A212
288B391
288620-46
-45
-44
-43
-42
-41
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-3
-2
288620-2

VISA CODE

A	ANODIC TREATMENT
P	P-R FINISH
AP	ALUMINUM PRIMED
C	CHROMATE PLATE

-47	PBY-5	288620	164
-48	PBY-5	288526	164
-7	PBY-4	288526	164
-26	PBY-3	288526	164

PBY-5	48 1000
PBY-4	288 1000
PBY-3	288 1000
PBY-2	288 1000
PBY-1	288 1000
XPBY-1	288001

REPLACES
REPLACED BY
UNLESS OTHERWISE SPECIFIED ± 1/32

APPROVED 5 21 57 DATE
SCALE 6" = 1'-0"
REQUIREMENTS PER AIRPLANE
MAT
PARTS LIST PER A/C

AC
NAVY NOTED
MATERIAL
NOTED
SPEC.
NOTED
HEAT TREAT
FINISH

CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.
STAMP PT. No. WHERE SHOWN

NAME
BELTFRAME HULL - STA 6.20

DWG. NO. 288620
OPP HAND

All AL ALLOY SHEET 24 ST SPEC 47A10 EXCEPT AS NOTED
All AL ALLOY EXTRUSIONS 24 ST EXCEPT AS NOTED
HEAT TREAT ALL BOLTS & A PART SPEC 14-58 TO COND T
RIVETS ALL ALLOY EXCEPT AS NOTED

H 63

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
M	TRACED	9-24-40	
N	CHANGED -4-5-6-7-28-29-30 4-31 FROM ST. TO St.	1-16-38	
O	CHANGED -3 WITH -24, -24 WITH -25, -25 WITH -26, REPLACED -32 & -33 WITH -38 & -40 RESPECTIVELY FOR PBY-5.	11-17-38 / 4-20-39	
P	ADDED BOSSES & SHIMS CAPS		
Q	REMOVED -21 & 22 HEADS - BAR		
R	ASSY		
S	ADDED -41L TO WARNING PLATES ASSY ONLY		

15780
17420
15150

UPPER HALF OF BELTFRAME STA 6.4 SEE 288640 (PBY-1 & FUTURE) (REF.)

SECT. A-A

SECT. B-B

(-21) L.H. (-22) R.H. DO NOT USE ON -550 ASSY. USE INSTEAD 288015 AS SHOWN IN SECT. DD

SECT. C-C

END OF 288640-32 & 33

(-32) L.H. (-33) R.H. BULB ANGLE 3/8 x 5/16 x .060 ALCOA DIE K1559 - AL ALLOY (24 ST) SPEC. 46A8 - COND. T PBY-1, 2, 3, 4

CUT -39 HERE

TRIM -39 O.V. INSTALL. OF 288426

SECT. E-E

VIEW F-F

NOTE: ON PBY-1 & PBY-2 INSTALL -25 ON FORWARD SIDE AS INDICATED BY DOTTED LINES

ON PBY-3 & FUTURE PBY-1'S & PBY-2'S PART -25 IS CANCELLED & REQ'MTS FOR -24 INCREASED FROM 1 TO 2 REQD. -24 IS THEN INSTALLED ON LEFT & RIGHT HAND SIDES

(-24) PBY-3 & FUTURE

(-25)

SECT. D-D

ONLY

STRINGER

AN442-08

ALCOA DIE K-1559 SPEC. 46A8 - COND. T (39) L.H. (40) R.H. ON -550 ASSY

(-25) L.H. (-26) R.H. .030 SHEET AL ALLOY (24 ST) SPEC. 47A10 - COND A - M.T. S.R. 55 (COND T)

8 - 3/16 RIVETS EQUALLY SPACED

ALL WEB STIFFENERS TO BE .006 LED 1/16 WHERE NECESSARY OUTSTANDING LEG TO BE TRIMMED 30°

USE ON -550 ASSY ONLY

3/4 X 3/4 X 1/16 x 5 - K5401 ANGLES TO BE EQUALLY SPACED AS SHOWN IN EACH SPACE BETWEEN WEB STIFFENERS

(-41) L

RIVETS IN TOP & BOTTOM EDGEING

AN442-06

AN442-05

SEE VIEW H

VIEW H

TYPICAL ATTACHMENT OF STIFFENERS TO CORD MEMBERS UPPER & LOWER THIS VIEW APPLIES TO PBY-2 & FUTURE

L.H.	R.H.	
(-4)	(-5)	FRONT TOP ANGLE
(-6)	(-7)	REAR TOP ANGLE
(-28)	(-29)	FRONT BOTTOM ANGLE
(-30)	(-31)	REAR BOTTOM ANGLE

5/8 x 1/2 x .060 ANGLE DIE K-9876 } PBY-1 ONLY

5/8 x 5/8 x 1/16 PLAIN ANGLE DIE M-1282 } PBY-2 & FUTURE

SPEC. 46A8 - COND. A 24 S0 AL ALLOY HEAT TREAT SR-55 COND T

(-2) WEB .025 SHEET AL ALLOY (24 ST) SPEC. 47A10 - COND-T FOR -O ASSY

(-38) WEB .030 SHEET AL ALLOY (24 ST) SPEC. 47A10 - COND-T FOR -550 ASSY

RIVETS IN WEB STIFFENERS TO BE EQUALLY SPACED AS SHOWN

(-34) AL ALLOY (24 ST) SPEC 47A10 GUSSET .051 SHEET REAR FACE ONLY

288152 ON PBY-1 & FUTURE

8 BEND ANGLES SEE SECT. L-L 288152

DRILL -28 (.144) 288138 QS7a1-K5-1.5 AN 510-06-8 AN 525-06

(-10) L.H. (-11) R.H.

(-12) L.H. (-13) R.H.

(-36) L.H. FRONT (-8) L.H. REAR (-8) R.H. REAR (-37) R.H. FRONT

(-35) AL. ALLOY (24 ST) SPEC. 47A10 COND. T GUSSET .051 SHEET REAR FACE ONLY.

SEE SECT. B-B

288212 CLIP ON PORT SIDE ONLY

AC425-04

SECT. G-G

FORWARD

CLIP 288070

AN442-06

BEVEL CONSTANT BETWEEN THESE POINTS

288073 CLIP -550 ASSY

5/8 ON PBY-1 & FUTURE

WEB STIFFENERS
PART NOS. -8-9-10-11-12-13-14-15-16-17-18-19 & -20 TO BE 7/16 x 3/16 x .040 EXTR. ANGLES
ALCOA DIE K-6240 - AL ALLOY (24 ST)
SPEC. 46A8 COND. T

DIAGONAL BRACES
PART NOS. -21-22-23 & -24
TO BE 5/8 x 1/2 x 1/16 EXTR. ANGLES
ALCOA DIE K-9876 AL ALLOY (24 ST) SPEC. 46A8 COND. T

288075 CLIP -550 ASSY

KEEL LINE

FINISH CO.	
Z	ANODIC TREATM
P	P-27 PRIMER
AP	ALUMINIZED PRIM
C	CADMIUM PLATE

BELT FRAME STA. 6.4
PORT SIDE - LOOKING FORW'D.

-34	PBY-3 & 4	288564-3/EA
-35	PBY-5 & 6	288564-4/EA
-550	PBY-5	288640
	PBY-4	288640
	PBY-3	288640
	PBY-2	288640
	PBY-1	288640
	SPBY-1	288640

FINISH:
Z-P-2 ON PBY-1 & XPBY-1
Z-P-2 ON PBY-2 & FUTURE

UNLESS OTHERWISE SPECIFIED ALL RIVETS ARE AN442-D5 #31 DRILL FOR AN 442-06 5/32 " " AN 442-06

ALL AL. ALLOY SHEET 24 ST SPEC 47A10 EXCEPT AS NOTED
ALL AL. ALLOY EXTRUSIONS 24 ST EXCEPT AS NOTED
HT ALL COND A MATERIAL SPEC SR-58 TO COND T
RIVETS AL ALLOY EXCEPT AS NOTED

REPLACES					
REPLACED BY					
LIMIT DIM UNLESS OTHERWISE SPECIFIED ± 1/64					
DECIMALS .X ±.1 .XX ±.01 .XXX ±.005					
ANGLES ±1°					
SCALE 1/4" = 1'-0"					
MAVY NOTED					
MATERIAL					
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.					
STAMP PT. No. WHERE SHOWN					

APPROVED 8-26-37 DATE

CALC WT. 7.19 ACT WT.

INCORPORATES
THE FOLLOWING BUR'AERO CHANGES
MODEL PBY-1 CHANGE # 75 , # 88
MODEL PBY-2 CHANGE # 27 , # 42
MODEL PBY-3 CHANGE # 7 , # 18

C.O. 8587
C.O. 10199
E.O. 15782

LET	SUPPLIES & EQUIPMENT CLASSIFICATION ALTERATION	DATE	BY
J	TRACED V/O TO DATE	9-24-37	H.W.
K	-8P 84.37 WAS 24.80	9-27-37	
L	Removed one Rivet from 29	10-12	
M	ADDED -34 -36 (4 REQ'D-EA)	4-14-38	
N	ADDED -33 2 EACH REQ'D	6-7-38	
	ADDED -34 2 EACH REQ'D	"	"
O	288212 & REPAIR WERE 4 EA REQ.	6-13-38	
P	ADDED - 35 & -36 ASSY'S. (C.O. NO.		
	- A&E - 17 FOR PBY-5		
	ADDED - 55 ASSEM. & PBY-5		
	REQMT'S.	4-20-39	
	REMOVED -18, -19, -34 FOR -55 ONLY		
Q	REMOVED - 35 FROM B.M. OF	10-31-40	
	-55 ASSY. ADDED - 374 - 38 TO		
	B.M. OF -55 ASS'Y. & VIEW J-J		
R	SECTION H-H		
	CHANGED 288071 TO 288013 ONE	11-25-40	
	PLACE, 288071 TO 288016 THREE		
	PLACES & B.M. ASSEMBLY WITH OF		
	288068 - 1A - 55 ASSY. WAS		
	288071 - 10 REQ. PER SHIP		

END - 33 & - 36 HERE

(21) PBY-1,2,3 & 4 -0 ASS'Y.

TRIM ON INSTALL OF 288246

(18) L H
(19) R H
} PBY-1,2,3 & 4 -0 ASS'Y.

SPLICE PBY-1,2,3 & 4 -0 ASS'Y

(35) LH ON -55 ASS'Y.
(36) RH (P)

(16) L H
(17) R H
} PBY-1,2,3 & 4 -0 ASS'Y.

SECTION A-A

SECTION B-B

(29) REF.

SECTION C-C

DETAIL SHOWING TRIMMING OF OUTSTANDING LEG
1/16 LEG OF BULB ANGLE TO BE MAINTAINED AND TRIMMED AT 30°

(22) L H .030 SHEET
(23) R H

DASH NOS AND MATERIAL FROM WHICH THEY ARE MADE

ALL AL ALLOY EXTRUSIONS SPEC 46A9 CONDT (24ST)

3/8 x 3/16 x .060 BULB ANGLE DIE K-1559
-16, -17, -18, -19, -20, -21, -30, -35, -36

1 3/8 x 3/4 x .075 BULB ANGLE DIE K-5009
-2, -3, -4, -5 PBY-3, -3BR.

3/4 x 3/16 x .040 PLAIN ANGLE DIE K-6240
-14, -15

3/8 x 3/16 x 1/16 BULB ANGLE DIE K-1559
-6, -7, -8, -9, -10, -11, -12, -13

AL ALLOY SHEET 47A10 COND A H.T. 3R-53 (COND T)
-22, -23

AL ALLOY SHEET SPEC 47A10 COND T
-29, -25, -26, -27, -28, -33, -34

OUTSTANDING LEG TO BE TRIMMED 30° ON ALL STIFFENERS

OMIT ON PBY-4 & ALL FUTURE MODELS

FINISH CODE
T CLEAR ANODIC
N NO FINISH
AM ALUMINIZED
C CHROMATE PLATE

REF DRAWINGS
HULL OFF SETS 288003
BULKHEAD ANGLES 288036
STRINGER SPACING CHART 288007

BELTFRAME

DETAIL SHOWING TRIMMING OF OUTSTANDING LEG
1/16 LEG OF BULB ANGLE TO BE MAINTAINED AND TRIMMED AT 30°

BELTFRAME - STA 6 6
PORT SIDE - LOOKING FORW'D

(30) BULB ANGLE 3/8 x 3/16 x .060 DIE K-1559 2 REQ'D.

SECTION F-F

STRINGER

VIEW D-D

(29) .064 AL ALLOY (24ST) SPEC 47A10 COND T H.T. - NONE (2 REQ'D PER ASS'Y)

AN442-D5 9/16 FROM EACH END SPACED @ 1 1/2

(L) OMIT 3RD RIVET FROM OUTBOARD END OF -29 IN THIS ROW PORT SIDE ONLY (FOR REPLACEMENT OF THIS RIVET SEE 28F2043 TOILET INSTALL (REF)) (13)

SECTION G-G

22F312 CLIP
288212 CLIP
AC425-D4
FORWARD

SECTION E-E
APPLIES TO -0 ASS'Y. ONLY

BELT FRAME
TOP OF KEEL
USE EXISTING RIVET HOLES OTHERWISE USE 7/16 DIA.
AN442-D5
JOGGLE HERE -37 & -38

VIEW J-J
APPLIES TO -55 ASS'Y. ONLY

22F312 CLIP (REF)
288212 CLIP (REP.)
AC425-D4
FORWARD

Section H-H
APPLIES TO -55 ASS'Y ONLY

(3) R H
(2) L H
DRILL FOR 5/32 RIVET AN442-D5 4 REQ'D

BEND ANGLE SEE SECTION L-L DRG 28B3572

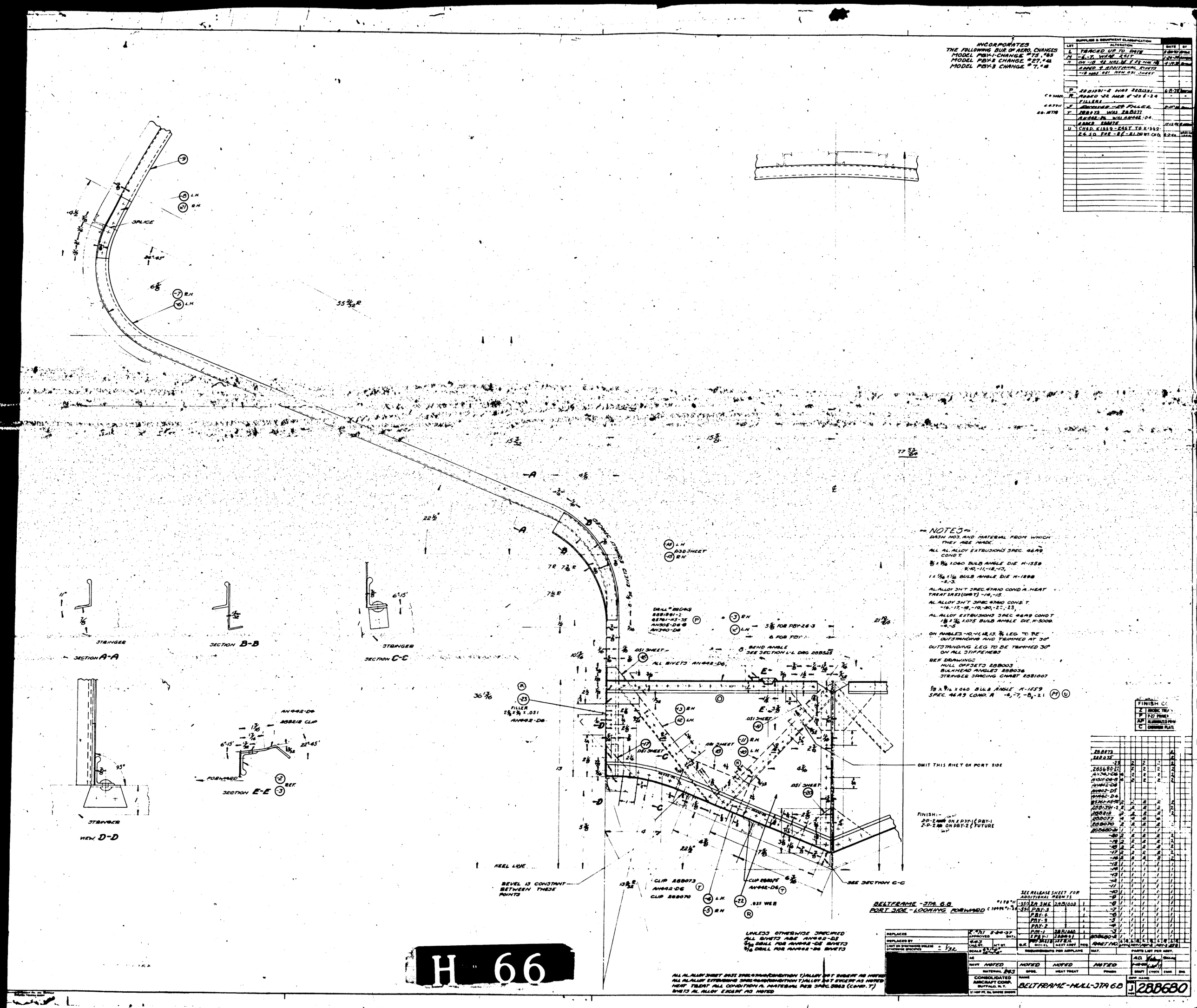
AN442-D6
RIVETS BETWEEN STIFFENERS EQUALLY SPACED
ALL RIVETS AN442-D6 WITH EXCEPTION OF RIVETS IN STIFFENERS AS NOTED
AN442-D5
CLIP 288070
CLIP 288075 (R) AN442-D6
CLIP 288073 (R) AN442-D6
KEEL LINE
(4) L H
(5) R H
(33) .032 WEB
(32) LH 3/4 x 3/4 x 1/16 PLAIN ANGLE ONE REQ'D AL ALLOY EXT. SPEC 46A9 COND T
(31) RH
SEE SECTION C-C
(24) .040 SHEET
(25) .051 SHEET
(26) .051 SHEET
(27) .051 SHEET
(28) .051 SHEET
(15) (14) (12) (13) (10) (11) (6) (7) (8) (9) (34) FILLER 5016 & 5/16 USE ON PBY-1,2&3 ONLY

UNLESS OTHERWISE SPECIFIED
ALL RIVETS ARE AN442-D5
5/32 DRILL FOR AN442-D5 RIVETS
7/32 DRILL FOR AN442-D6 RIVETS

FINISH:
Z-P-2 (ANOD) ON PBY-1 & PBY-2
Z-P-2 ON PBY-3 & FUTURE

INCORPORATES
THE FOLLOWING BUR. OF AERO. CHANGES
MODEL PBY-1 CHANGE #75, #83
MODEL PBY-2 CHANGE #27, #42
MODEL PBY-3 CHANGE #7, #18

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
L	TRACED UP TO DATE	7-30-37	[illegible]
M	-6,-7, WERE 2417	10-1-37	[illegible]
N	04-18 42 WAS 36 & 24 NNF 48	4-19-38	[illegible]
	ADDED 4 ADDITIONAL RIVETS		
	-18 WAS 081 NOW 091 SHEET		
P	288191-2 WAS 288191	6-8-38	[illegible]
R	ADDED 32 NUB 6°-23 & -24	"	"
	FILLERS		
S	CHANGED -22 FILLER	8-17-38	[illegible]
T	288178 WAS 288077		
	AN442-D6 WAS AN442-D4		
	ADDED SHAPE	12-14-38	[illegible]
U	CHGD K1569-EAST TO K1569-		
	24 SQ FOR -8C-21.250 WT. CHG.	1-24-39	[illegible]



NOTES
DASH NOS. AND MATERIAL FROM WHICH THEY ARE MADE.

ALL AL. ALLOY EXTRUSIONS SPEC. 46A9 COND T

⅝ x 9/16 x .060 BULB ANGLE DIE K-1559 -9,-10,-11,-12,-13,

1 x 1 3/16 x 1/16 BULB ANGLE DIE K-1898 -2,-3.

AL. ALLOY SH'T SPEC. 67A10 COND A. HEAT TREAT SR53 (COND T) -14,-15.

AL. ALLOY SH'T SPEC. 67A10 COND T. -16,-17,-18,-19,-20,-22,-23,

AL. ALLOY EXTRUSIONS SPEC. 46A9 COND T 1⅝ x 1/16 x 1.075 BULB ANGLE DIE K-5009. -4,-5

ON ANGLES -10,-11,-12,13. ⅞ LEG TO BE OUTSTANDING AND TRIMMED AT 30°

OUTSTANDING LEG TO BE TRIMMED 30° ON ALL STIFFENERS

REF DRAWINGS
HULL OFFSETS 288003
BULKHEAD ANGLES 288036
STRINGER JIGGING CHART 2881007

⅛ x 9/16 x 060 BULB ANGLE K-1559 SPEC. 46A9 COND. A -6,-7,-8,-21 (M) (U)

FINISH:- CC
2P-2 MM ON EP37 (PBY-1
2-P-2 MM ON PBY-2 (FUTURE

FINISH CC	
Z	ANODIC TREAT
P	P-37 PRIMER
AP	ALUMINIZED PRIM
C	CADMIUM PLATE

| | | |

INCORPORATES
PBY-1 BUREAU CHANGE NO. 77
PBY-2 BUREAU CHANGE NO. 31
PBY-3 BUREAU CHANGE NO. 10
PBY-1 BUREAU CHANGE NO. 131
PBY-2 BUREAU CHANGE NO. 81

LET	ALTERATION	DATE	BY
R	REVISED	5-24-41	218
Q	REVISED NOTE AT VIEW 'F' TO READ		
	PBY-2 "2 & ON	3-3-41	CCA
P	ELIMIN-316-32 ON PBY-2 & ON	1-10-41	218
O	WAS AN 420-2 & 2B2144-1 IS REMOVE	2-20-38	218
	2B81944-1 on PBY-2 & ON	"	"
N	42 ONE PLACE WAS -14, ADDED	9-30-38	SMITH
M	4% BOLT REPLACED 2B81944-1 WAS		DAVIS
	2 REVISED BLIN-216 SEAM & RE-		
	MOVED SECT-C-ON PBY-1 & PUT 3 RIVETS	2-20-40	218
U	ADDED VIEWS 'E' - 'S' & SEAM		
	MORE-24-ADDED-27&-28 IN PLACE		
	OF -26 & 3		
V	-27 & -28 REPLACE TWO PARTS OF P-13		
	2B82144-1&2 REPLACED BY TWO		
	UNITS OF -13	11/21/40	CCA
W	-3 (AN4S-13E-13) & -5 (AN426 WAS		
	10 AN426E-3) 2B81-9	11-11-40	218
	2 ADDED ADDED		
X	3 DIA -3 HOLES RELOCATED	11-14-40	218
Y	1 3/16 DIM & 4 5/8 DIM ADDED TO ZIP	11-14-40	218
	SECTION 1-1		
Z	-24 REVISED-CUTOUT CH'GD		
	DIM-REVISED & ADDED	2-20-40	218
AA	CH'G'D HOLES FROM RO TO ELONGATE		
	CH'G'D DIMS. 7/16 TO 9/16 & 5/16 TO 7/16		
	11 3/16 TO 11/16, 1/2 TO 9/16 ADDED DIMS.		
	5/8, 1 & 1 3/16 R FOR -83 2B8-30 LH	8-1-41	SMITH
	PARTS AT RBH/BLIND, UP TO DATE		
AB	-4 (LH) WAS -4 (RH) ADDED -34		
	RH'D, TRIMMED -10 LH 30°		
	(WT CHG REQ'D)	+24-41	218
AC	-3 (LH) WAS -3 (RH) ADDED -32 RH (RH) TRIM		
	MED-STILL 30° (WT CHG REQ'D)	+24-41	218
AD	-13 (LH) WAS -13 (RH) ADDED -34 LH		
	(LH) & -33 (RH) (WT CHG REQ'D)	+24-41	218
AE	MARK -"B-42" WAS "BUILT		
	K1550 & WT CHG + 2A	5-3-42	
AF	ON FILE AT NOTE "MAKE -2-3-15-20		
	-36-37-38 FROM 1-5 AST" ADDED		
	OR K1550 AL ALLOY EXTR. SPEC 00-A		
	354-T" NO WT CHG.	8-15-42	RIDDLE

C.O. 5070
C.O. 7306
C.O. 7504

E.O. 13959

E.O. 14482 & E.O. 32609

PBY-5A, 6A-16, 28 SAME AS PBY-5 & 5A EXCEPT AS NOTED
2B5-MA, MH, MG & MK
AMBROSE 7-16-41

E.O. 37978

E.O. 848762

CUTOUTS IN -24 PORT SIDE ONLY.

DETAIL 'X'
SHOWING SPLICE FOR PBY-5

SPLICE HERE

FOR PBY-5 SEE DETAIL 'X'

2B82144 LH
2B82144-1 RH

SEE SECTION D-D DRG 2B81725

SEE DETAIL FOR INSTALL

POINT OF TANGENCY BETWEEN PECK AND CHINE RADII

POINT OF TANGENCY BETWEEN CHINE RADIUS AND BOTTOM

SEE 2B81725

AN442-D4 EQUALLY SPACED AS SHOWN

SEE SECTION B-B DRG 2B81725

3 HOLES N-23 (-30 ONLY

SAME AS -14 EXCEPT FOR HOLE

11/16 DIA. HOLE (FOR RUDDER LOCK CONTROL)

SEE SECTION B-B DRG 2B81725

KEEL LINE

POSITION OF BLOCK FOR PBY-1

NOTE: CLIP 2B8700-36 IS OMITTED ON BELTFRAME 2B81125

AN442-D5

LH ALCOA DIE K-9876

AN442-D5 (ON ASSEM)

SECTION A-A

DETAIL F

2B82144-LH (REF)
2B82144-1 RH (REF)

STRINGER #818 (REF)
STRINGER #814 (REF)
-2 (REF)
-15 (REF)
END OF -2
CUT OFF -15 HERE
AN442-D6 (LREQ'D)

LLF313
AC425-D4

SECTION G-G

2B8700-36

SECTION H-H

MAKE -2-3-15-20-24-27-28
FROM Y-B-AST, OR K1550, AL ALLOY EXTR., SPEC. 00-A-354-T.

GUSSETS
PART NO'S -5-6
.064 SHEET - SPEC 47A10 COND T

CLIPS
PART NO'S -8-9-18
1 7/16 x 1/2 x .040 DRAWN SHEET ANGLE DWG #M 925
SPEC 47A10 COND A

CLIPS
PART NO'S -13-14-24-29-30
1 7/16 x 1/2 x .030 DRAWN SHEET ANGLE DWG. #M 924
SPEC 47A10 COND 'A'

PART NO'S -10, -11, -37
.050 ALCAD ALLOY SHEET
SPEC 47A10 COND A.

17 OVER ALL

DRILL #28 PER AN 960-D6

OMIT THIS RIVET IN BELTFRAMES

TO KEEL OF CHINE

| | | |

INCORPORATES
PBY-1 BU. AER. CHG. 9131
PBY-2 " " 9191

LET	ALTERATION	DATE	BY
L	TRACED	6-3-40	
M	ADDED PROJECTION VIEW OF SECTION A-A	8-22-40	
N	ADDED 11/64 DIA. HOLE IN -3	9-7-40	
O	ADDED -23 REPLACING -15 FOR PBY-5. ADDED -33 ASSEM. & DELETED -5 ASSEMBLY	9-21-40	
P	1 3/16 DIA. & 11/64 DIA. HOLE ADDED	9-21-40	
Q	REVISED NOTE - K88833-7 (SUBSTITUTE TO 28B1735-17)	9-21-40	
R	ON -30 ASS'Y ONLY - 3 5/16 TO	10-2-40	
S	6-PBY-5A MODEL CHGD INTERCOSTAL TO SUIT TO TOP OF -22 & -23 REVISED -9, 11, 12 & -21 ADDED	10-2-40	
T	-22 & 23 ADDED	10-2-40	
U	NUMEROUS NOTES, HOLE ANGLES, WT SERVS (SHEET 2) & "BX & D ASSY" SPEC. 4GA10 CONDITION ADDED NOTE	10-2-40	
	PLANE - 7-PBY-5A WT. 16,965 WAS 16,8		
U	TO MAT'L NOTE FOR -2, -3, -4, -16 & -20 ADDED "OR K1558, AL AL. EXTR., SPEC. QQ-A-354-T." NO WT. CHG.	10-24-40	

C.O. 7598
EA 22648
EA 22352
EO. 11581
E.O.A-5705
EO. 810773

(N) 11/64 DIA. HOLE IN -15 & -23 ONLY FOR RUDDER LOCK CONTROL CABLES.

(O) TRIM AT 45° AS SHOWN

(R) OMIT THESE RIVETS (PART & STA'D) UNTIL PULLEY INSTALL. 28C1103 (REF)

(S) THIS CUTOUT PORTSIDE ONLY

(T) (U) SEE SECTION D-D DRG. 28B1725

SEE SECTION C-C DRG. 28B1725

SEE SECTION B-B DRG. 28B1725

SEE SECTION B-B DRG. 28B1725

AN442-D4 EQUALLY SPACED AS SHOWN

AN442-D5 EQUALLY SPACED AS SHOWN

AN442-D5

AN442-D5

AN442-D8 (ON ASSEM.)

SECTION A-A

LENGTHWISE

SPLICE

POINT OF TANGENCY BETWEEN DECK AND CHINE RADII

POINT OF TANGENCY BETWEEN CHINE RADIUS AND BOTTOM

KEEL LINE

NOTE:- OMIT THESE RIVETS UNTIL INSTAL. OF BOMB DOOR

(7) EXTR. ANGLE 3/4 x 3/4 x .060 ALCOA DIE # 5468 SPEC. 46A9 COND T

GUSSETS
PART NO'S. -5-6
.064 SHEET
SPEC. 47A10 COND T

CLIPS
PART NO'S. -8-9-10-24
MAKE FROM DRAWN ANGLE M-925
SPEC. 47A10 COND. A. H.T. SR. 53 (COND T)

CLIPS
PART NO'S. - 14 - 15 - 22-25
MAKE FROM DRAWN ANGLE M-924
SPEC. 47A10 COND A H.T. SR. 53 (COND T)

CLIPS
PART NO'S. - 11 - 12 - 17 - 18
.090 AL ALLOY SHEET
SPEC. 47A10 COND A H.T. SR. 53 (COND T)

CLIPS
PART NO'S. -19 - 13 - 23
MAKE FROM DRAWN ANGLE M-931
1 1/2 x 1 1/2 x .040 SPEC. 47A10 COND A
H.T. SR. 53 COND T

(T) (U) MAKE -2, -3, -4, -16 & -20 FROM Y5-A5T, OR K1358, AL AL EXTR., SPEC. QQ-A-354-T.

(S) CLIPS
PART NO'S. -27 & -27B
MAT. .040 x 2 1/2 x 5 1/2 24S-0
H.T. SR 53

BELTFRAME STA. 8.33
PORT SIDE
LOOKING FORW'D

FINISH:
C-91876
C-70896
2-P-GP-NWS ON PBY-1 & PBY-1 (EXPBY-1)
2-P-GR NWS ON PBY-2 & FUTURE

H 68

ALL AL. ALLOY SHEET SPEC. 47A10 (COND T) ALLOY BAT EXCEPT AS NOTED
ALL AL. ALLOY EXTRUSIONS SPEC. 46A9 (COND T) ALLOY BAT EXCEPT AS NOTED
HEAT TREAT ALL COND A MATERIAL PER SPEC. SR 53 (COND T)
REMITS AL. ALLOY EXCEPT AS NOTED

REPLACES	APPROVED	J. Alt 8-29-39	
REPLACED BY	CALC. BY	2.80	
LIGHT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ±	SCALE	3" = 1'-0"	
	AS		
	NAVY	NOTED	
	MATERIAL		

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

O.H.	MODEL	NEXT ASSY. USED	PARTS
REQUIREMENTS PER AIRPLANE		MAT.	
NOTED SPEC.	NOTED HEAT TREAT	NOTED FINISH	

PARTS LIST PER ASSY

S-889	J.A.	8-29-39	
A.D.			
SHOP	FIELD	ENG.	

NAME: BELTFRAME - HULL STA. 8.33

CODE IDENT. NO. J 288833

SIZE

Z	ALODINE TREATMENT		
P	PRIMER		
ZP	ALODINE TREATMENT & PRIMER		
C	CADMIUM PLATE		

288833-5A			
288833-6A			
28B813-11			
AN442-D4			
AN442-D5			
288833-7A			
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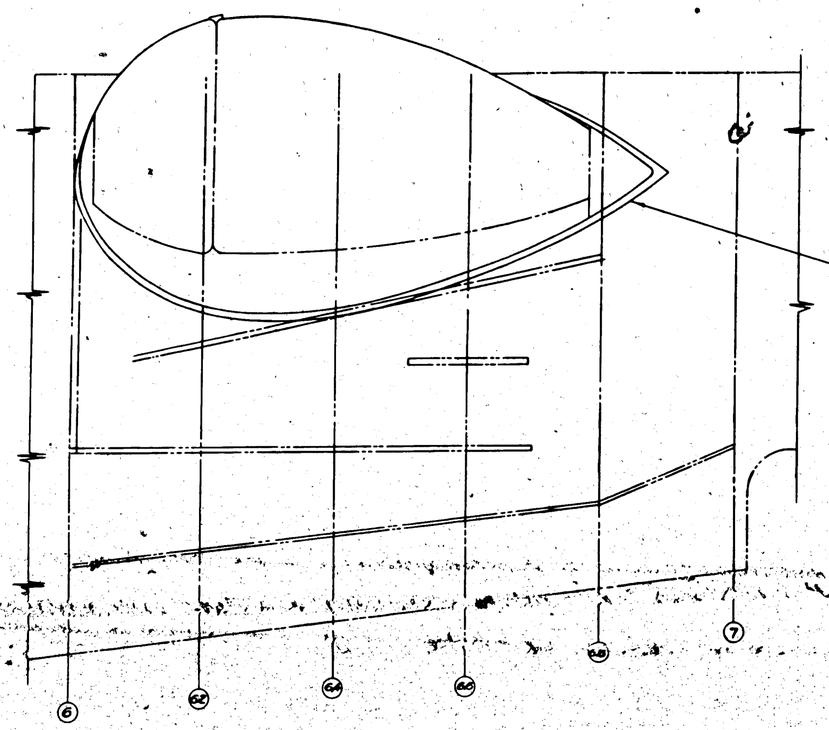
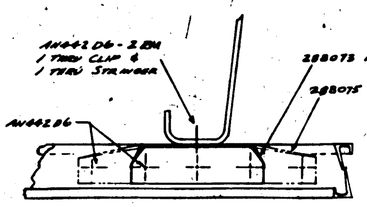
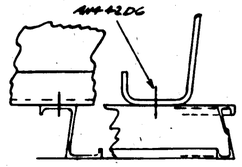


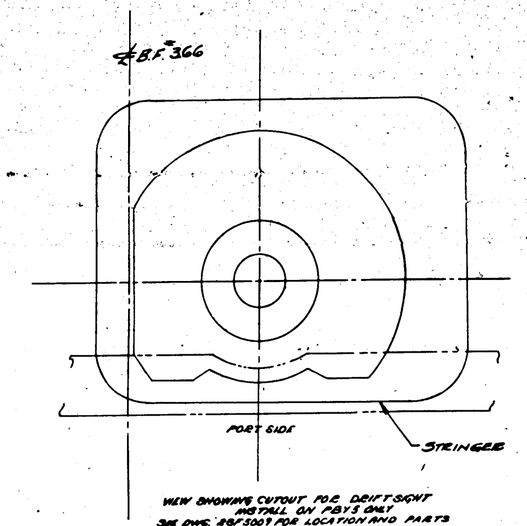
VIEW SHOWING WAIST GUN HATCH OPENING FOR -550 ASSY



DETAIL A
SHOWING BOT. STRINGER ATT'Y TO PRESSED B.F.'S USING CLIPS 288 073 & 288075.



DETAIL B
SHOWING BOT. STRINGER ATT'Y TO PRESSED B.F.'S WHERE NO CLIP IS USED



VIEW SHOWING CUTOUT FOR DRIFT SIGHT INSTALL ON PORT SIDE ONLY
SEE DWG. 28F5001 FOR LOCATION AND PARTS SECURED TO HULL
DETAIL C

THIS SHEET IS UP TO DATE INCORPORATING CHANGES TO LETTER								
LET	DATE	BY	LET	DATE	BY	LET	DATE	BY
T	6-8-37	[redacted]						
U	8-24-37	[redacted]						
V	10-8-37	[redacted]						
W	1-21-38	[redacted]						
X	4-26-38	[redacted]						
Y	ADDED NOTE AT VIEW "A"						4-7-39	[redacted]

C.O. 7911

Z-SB1040 - FITTING INSTALL. (REF.)

Z-SB1050 - FITTING INSTALL. (REF.)

Z-SB1488-2 & -3 MUST FIT SNUGGLY AGAINST FITTING - BOTH ENDS

Z-SB1491-2
Z-SB1491-3
Z-SB1491-4
Z-SB1490
Z-SB1491-5
Z-SB1491-6
Z-SB1492-2
Z-SB1492-3

71.901 ±.005

AN442-D4
AN442-D6 AT END OF Z-SB1491 & Z-SB1492
Z-SB1485-2 - L.H.
Z-SB1485-3 - R.H.
Z-SB1489-4
Z-SB1489-5
Z-SB1489-6
Z-SB1489-7

VIEW "A"

Z-SB1480 - L.H.
Z-SB1480-1 R.H.

Z-SB1489-2
Z-SB1489-3

RIVET Z-SB1488-7 TO Z-SB1485-2 & -3 WITH AN442-D3 BEFORE ASSEM. Z-SB1489-1

Z-SB1494

AN442-D4

Z-SB1488-4 & -5

Z-SB1156 L.H.
Z-SB1156-1 R.H.

Z-SB1485

RIVET Z-SB1488-4 & -6 TO Z-SB1485-2 & -3 WITH AN442-D3 BEFORE INSTALLING Z-SB1480-84-7

Z-SB1075

Z-SB1488

Z-SB1494

AN442-D4

Z-SB1495

Q4308-D4

Z-SB1484

Z-SB1155

Z-SB1144-1 R.H.

Q4308-D4

Q4308-D4 1¼ SPACING

BLKHD #4

BLKHD #24

LOWER WING CONTOUR

℄ HULL

⅜

VIEW "A"
12"=1'-0"

(26) ⅜ x 1½ - APPROX. 4 6 PIECES PER SHIP MAKE FROM Z-SB1005-12 CEMENT RUBBER TOGETHER AND TO METAL PARTS WITH BOSTICK. CEMENT #1252 ON RUBBER & #421 ON METAL.

FIT RUBBER TO BLKHD. BEFORE CENTER SECTION IS INSTALLED.

(Y) NOTE: SEAL ALL OPENINGS AROUND SPONGE RUBBER FILLERS, Z-SB1005-29 AT TOP OF BULKH'D. #4 WITH DUM-DUM OR ZINC CHROMATE COMPOUND #1

SHEET #2
OF 2 SHEETS

NOTE — FOR BILL OF MATERIAL & SECTIONS SEE SHEET #1

H 70

STA	.833	.966	1.0	1.33	1.66	2.0	2.5	3.0	3.33	3.66	4.0	4.35	4.5	4.75	5.0	5.25	5.5	5.75	6.0	6.2	6.4	6.6	6.8	7.0	7.25	7.5	7.75	8.0	8.33	8.66	9.0	9.5	STA
A			3 1/16	3 7/16		3 1/16	3 1/16	3 1/16	3 1/16								3 1/16	3 1/16	3 1/16	3 1/16	3 1/16	3 1/16	3 1/16	3 1/16	3 1/16	3 1/16	3 1/16						A
B			3 1/8	3 1/8		3 1/8	3 1/8	3 1/8	3 1/8								3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8						B
C			6 25/32	6 29/32			0 5/8	0 5/8	0 5/8	0 5/8	0 5/8			0 5/8	0 5/8	0 5/8	0 5/8	0 11/16	7 1/8	7 15/16	0	0 1/16	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	6 1/2	6 1/2	5 7/8	5 7/8		C
D			6 25/32	6 5/8					10 7/16	10 7/16				0 5/8	0 5/8	0 5/8	0 5/8	0 11/16	3 3/8		3 3/8	0 1/16	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	6 1/2	6 1/2	5 7/8	5 7/8		D
E		7 1/8	6 25/32	6 5/8					5 1/4	5 1/4				0 5/8	0 5/8	0 5/8	0 5/8	0 11/16	0 1/16		0 1/16	0 1/16	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	6 1/2	6 1/2	5 7/8	5 7/8		E
F		7 23/32					7 29/32	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16		0 1/16	0 1/16	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	7 1/8	6 1/2	6 1/2				F
G	5 1/4	5 23/32	6 3/4	6 13/32	7 1/16	7 1/8	7 29/32	0 1/16	0 1/16	0 1/16	**					0 1/16	0 1/16						7 1/8	0 1/16	7 1/8	7 1/8	7 1/8	7 1/8						G
H	5 1/4	5 23/32	6 25/32	6 13/32	7 1/16	7 1/8	7 29/32	0 1/16	0 1/16	0 1/16						0 1/16	0 1/16						7 1/8	0 1/16	7 1/8	7 1/8							H
J	5 1/4	5 23/32	6 25/32	6 13/32	7 1/16	7 1/8	7 29/32	0 1/16	0 1/16	0 1/16	STRINGERS - PARALLEL					0 1/16	0 1/16	0 1/16	0 1/16	0 1/16			7 1/8	0 1/16	7 1/8	7 1/8							J
K		5 23/32	6 25/32	6 5/8	7 1/16	7 1/8	7 29/32	0 1/16	0 1/16	0 1/16						0 1/16	0 1/16	0 1/16	0 1/16	0 1/16														K
L			6 25/32	6 5/8	7 1/16	7 1/8	7 29/32	0 1/16	0 1/16	0 1/16					0 1/16	0 1/16	0 1/16	0 1/16																L
M				6 5/8	7 1/16	7 1/8	7 29/32	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	0 1/16	7 1/2	6 29/32																	M
N						7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4																			N
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P							4 5/16	4 5/16	4 5/16																									P
Q							5 1/16	5 1/16	5 1/16	5 1/16	5 1/16																							Q
R								3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4																			R
S								1 1/2	1 1/8	1 1/8	1 1/8	1 1/8																						S
T			1 3/8	1 31/32	1 25/32	1 27/32	1 31/32	2 1/4	2 1/4	2 5/32	2 5/32																							T
U			3 1/4	3 5/16	3 3/8	3 7/16	3 11/16	4 1/16	4 1/16	4 1/16	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 1/4														U
V			1 3/8	1 31/32	1 25/32	1 27/32	1 31/32	2 1/4	2 1/4	2 5/32	2 5/32																							V
W				1 31/32	1 25/32	1 27/32	1 31/32	2 1/4	2 1/4	2 5/32	2 5/32																							W
X				3 1/4	3 3/8	3 7/16	3 11/16	4 1/16	4 1/16	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 5/32	4 1/4														X
Y				1 31/32	1 25/32	1 27/32	1 31/32	2 1/16	2 1/16	2 5/32	2 5/32	**																						Y
Z					3 1/8	3 7/32	3 11/32	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16												Z
AA					3 1/8	3 7/32	3 11/32	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16	4 1/16																			AA
AB									7	7			7	7	7	7													7	6 15/16	6 7/16	6 7/32	6 1/32	AB
AC						34 3/4	36 27/32	38 15/32	39 3/16	40 1/16																								AC
AD	30 1/4	33 11/32	35 1/16	36 25/32																													AD
AE																		58 5/8	58 13/16	58 3/16													AE
AF	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4											AF
AG	4 1/4																					4 1/4	4 1/4										AG
AH																																	AH
AJ	5 1/8																					5 1/8											AJ
AK	5 1/8																					5 1/8											AK
AL	5 1/8						STRINGERS PARALLEL IN THIS AREA														5 1/8												AL
AM																					5 1/8											AM
AN	5 1/8																																AN
AP		5 1/8																															AP
AQ		5 1/8																5 1/8															AQ
AR			5 1/8	5 1/8		5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8								7	7	7	7	7	7	7	7	7	AR
AS																								6	6	6	6	6	6	6	6	6	AS
AT																								6	6	6	6	6	6	6	6	6	AT
AU																								6	6	6	6	6	6	6	6		AU
AV																							6	6	6	6	6	6					AV
AW																							6	6	6	6	6						AW
AX																						6	6	6	6								AX
AY																						6	6										AY
AZ																							25										AZ
BA																							37										BA
BB																																	BB
BC									1 1/8	1 1/8	1 1/8																						BC
BD									3 5/8	3 5/8																							BD
DA			6 7/8																														DA
DB			5 15/16																														DB
DC			4 5/16																														DC
DD			5 1/4																														DD
DE			5 1/8																														DE
DF			5 5/8																														DF
DG			5 5/8																														DG
DH			5 5/8																														DH
DJ			5 5/8																														DJ
DK			5 5/8																														DK

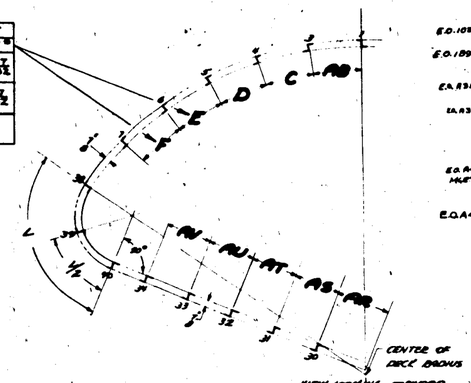
MODEL	STRBD E	STRBD F	PORT E	PORT F
PBY-1 PBY-2	7 7/32	7 3/32	7 3/32	7 3/32
PBY-3	7 15/32	6 31/32	7 3/32	7 3/32

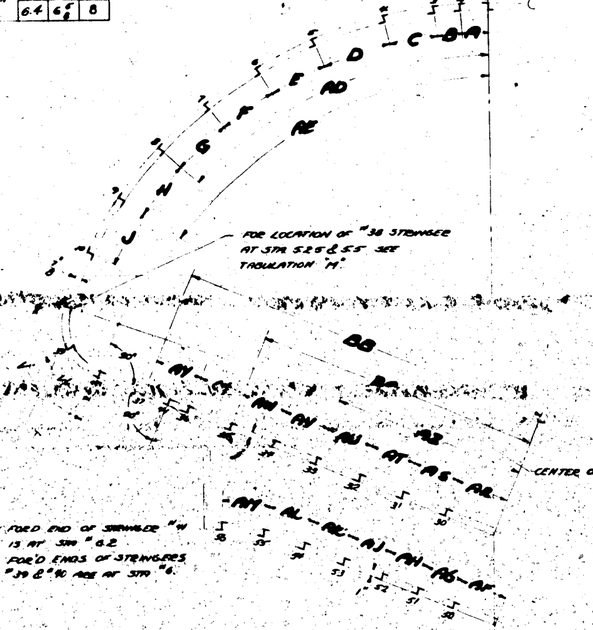
MODEL	STA	W. DIA. WAS	W. DIA. TO
PBY-5	6	7 3/16	7 5/8
28-5AK	6.2		7 15/16
28-5MK	6.4	6 5/8	8

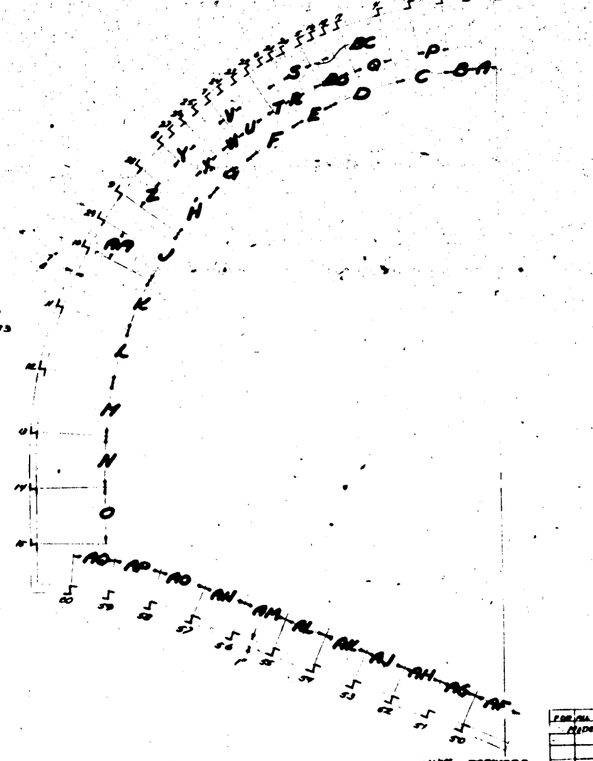
STA	6.0	6.2	6.4	6.6	6.8
CA	3 25/32				3 3/32
CB	3 25/32				3 3/32
CC	2 1/16		STRINGERS		2 1/16
CD	2 1/16		PARALLEL IN		2 1/16
CE	2 1/16		THIS AREA		2 1/16
CF	2 1/16			2 3/32	
CG	2 1/16			2 3/32	
CH	2 1/16			2 3/32	
CJ	2 1/16			2 3/32	
CK	2 1/16			2 3/32	
CL	2 1/16		2 1/16		
CM	2 1/16		2 1/16		
CN	2 1/16		2 1/16		
CO	2 1/16		2 1/16		
CP	2 1/16	2 1/16			
CQ	2 1/16	2 1/16			
CR	2 1/16	2 1/16			
CS	2 1/16				

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
B	TRACED UP TO AMC		
C	ADDED TABULATION OF DIM. AT BLK. "A" FOR PBY-5	9-13-39	
D	ADDED TABULATION OF DIMS AT STA "A" FOR PBY-5 28-5 MK. 28-5 MC.	11-6-40	
E	ADDED 6 3/4 FOR 6M. DIM. IN CHART FOR STRB. 33	4-13-42	
F	ADDED VIEW LOOKING AFT & TABLE		
G	TABLE NOTE CHG. ADDED DIMS AFFECTED BY VIEW LOOKING AFT & TABLE	5-11-42	
H	ADDED LABEL & NOTE FOR "BEAM" STRD SIDE ONLY & DIMS. OBT. AT STA. 8.0 & 8.33	7-1-42	
J	ADD VIEW LOOKING AFT ADD. TABLE (NOTE "VIEW LOOKING ---- MOD. PBY-5A & 28-5AMC" LOCATIONS DA TO DK ○ WT. CHG. NBG	5-7-43	

E.O. 10969A
E.O. 11943
E.A. 85098
E.A. 83564
E.O. A67179 MAP 49
E.O. A46608



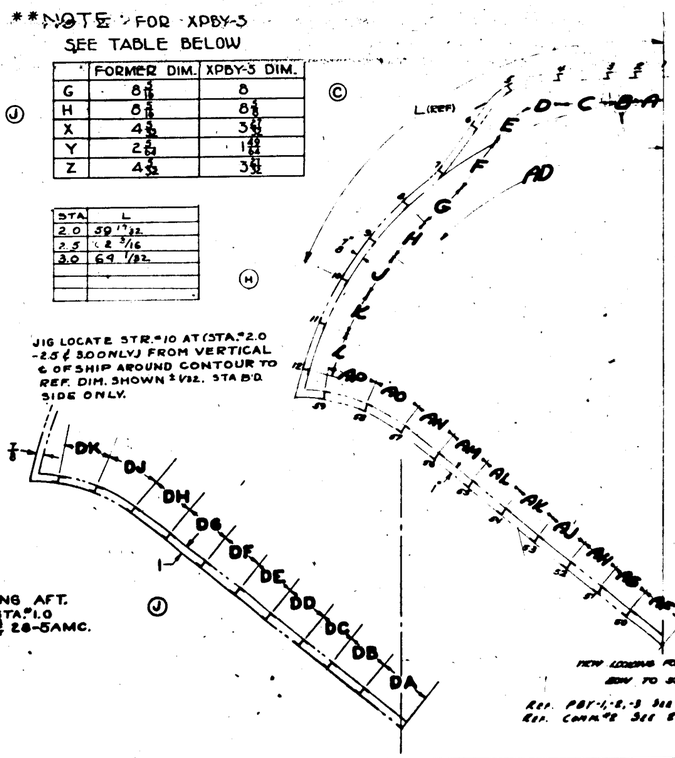


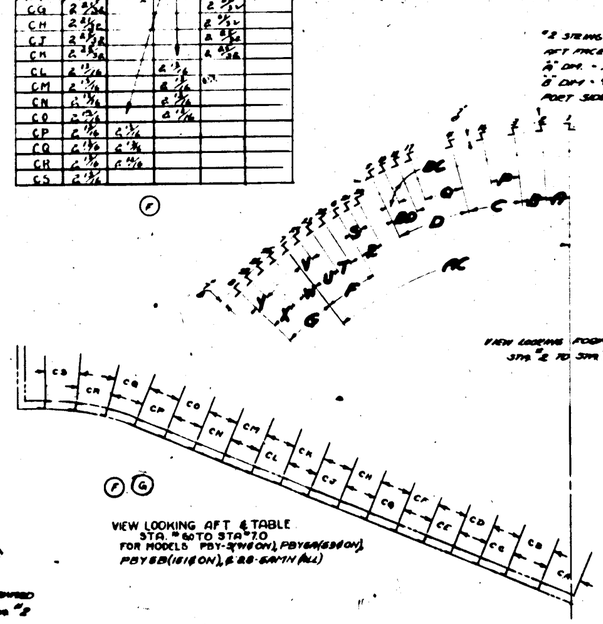


**NOTE - FOR XPBY-5 SEE TABLE BELOW

	FORMER DIM.	XPBY-5 DIM.
G	8 7/16	8
H	8 7/16	8 1/8
X	4 3/16	3 31/32
Y	2 1/16	1 31/32
Z	4 1/32	3 31/32

STA	L
2.0	59 11/32
2.5	62 5/16
3.0	64 1/32





Ref. PBY-1, -2, -3 See 28B1840 For Bow Stringers
Ref. Comm"R See 28B1840R For Bow Stringers

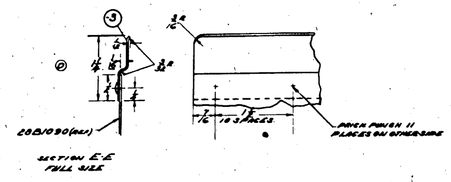
H 71

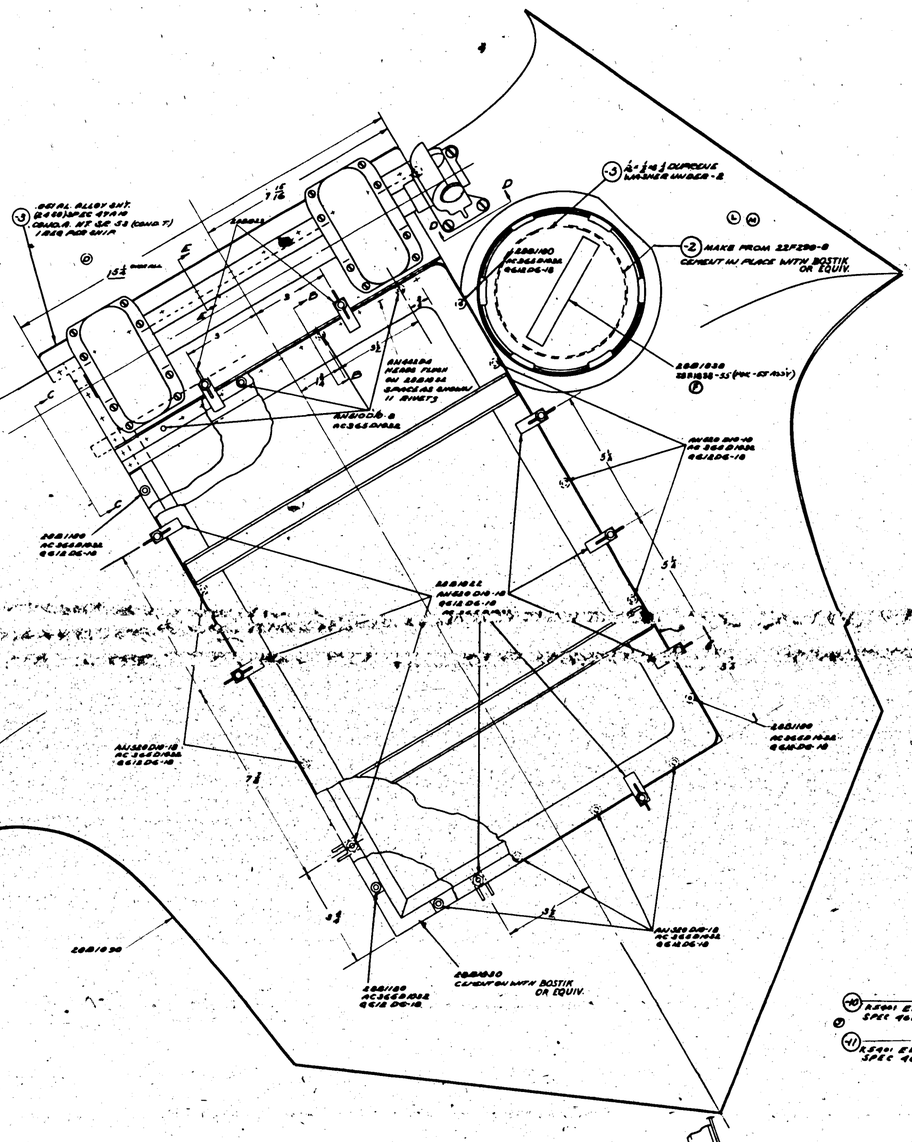
REPLACES 28B1007 OF 1-8-43	DRAWING	REV. LTR.	PART NO.
REPLACED BY	DATE		NO.
LIST ON DIMENSIONS UNLESS OTHERWISE SPECIFIED			
CALC. WT. ACT. WT.	O.H. MODEL NEXT ASSY. REQ.	ST'D PARTS	LIST PT. PART NO. NO.
DESIGN	REQUIREMENTS PER AIRPLANE	MAT.	PARTS LIST PER ASSY.
LAY			PBY-5 28B1000
TRACED NONE	NONE NONE NONE		PBY-5A 28B1000
MATERIAL	SPEC. HEAT TREAT FINISH		28-5AK 28B1000
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.			28-5AMC 28B1000
STAND PT. No. SHEET NUMBER	NAME	DRAFT CHK'D STAND	DWG. NUMBER
	CHART - HULL STRINGER SPACING		J 28B1007

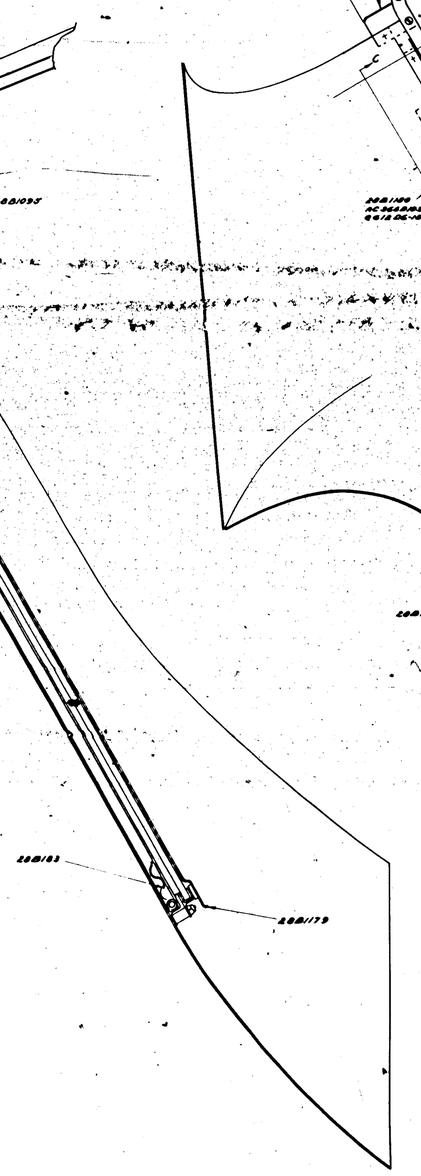
LET	ALTERATION	DATE	BY
C	TRACED TO CHTS	7-14-39	
D	-3 DEL 2 DIA HOLES IN .18 GA SKIN AT 3	8-30-39	
E	ANGLE BRK AT SECTION C-C WAS 1/8 WIDTH OF 1 WAS 1 1/2	9-29-39	
F	ADDED -5X ASSY & PART-5 DELETED ADDED 288A88-65 ADDED 288A88 FWC		
	-5X ASSY.	12-6-39	
G	ADDED -5XC & 5XNTI - ADDED YX-6347 & -48	12-20-39	
H	REVISED SHOWN FROM B/L	1-12-40	
J	CHG -108-11 FROM T2A-347 TO A5401	1-17-40	
K	INCREASED DIA 25" WAS 24" ADDED 2088A0 (9) WAS AN FWC DIA - 8.01 WC 466 REQ.	2-26-40	
L	-2 MADE 3 PLACES - FABRIC COVERED WAS 2 PLACES - FABRIC COVERED	3-8-40	
M	-5 PART CALLOUT MADE FROM 2288A0 (9) WAS "MICAR, SPONGE RUBBER, FABRIC COVERED, 1/2" LONG." WAS WT. CHG.	3-15-40	

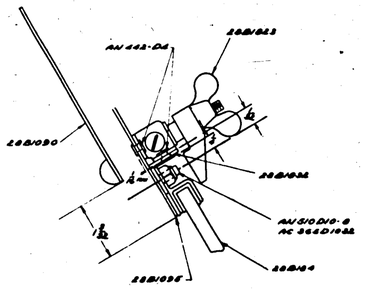
E.O. A 39880

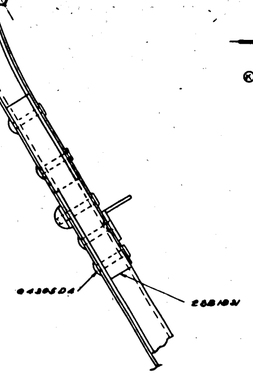
E.O. A 49289

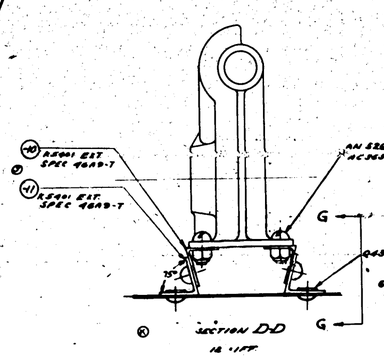


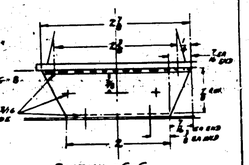












| | | |

LET	REVISION	BY	DATE
D	TRACED TO DATA		
E			
F			

E.O. 16879
E.O. 21159

NOTE:- OMIT ⊕ RIVETS MARKED E-79 BE RIVETED ON ASSEMBLY TO 28B0018-105 AT STATION 1.33 ONLY

22 F 3/2 AC 425 D4

AN442 D6 ON ASSEMB. OF BELT FRAME

-9 .072 SHEET

ALL RIVETS IN TOP EDGING AN442 D6 EXCEPT AS NOTED

-2 .025 WEB EXTENDS FROM STA 1 TO STA 2

WEB -2 AND GUSSET -4 EXTEND UP BETWEEN FITTINGS SEE SECT. E-E DWG 28B0023 FOR TYPICAL CONSTRUCTION

AC 425 D8

AN442 D8

TRIM BULB ANGLE AS 28B052 28B052-1 NOT TO BE ASSEMBLED UNTIL INSTAL. OF BULKHEAD

TRIM OUTSTANDING LEG 30°

-6 .030 GUSSET BOTH SIDES

ALL RIVETS IN VERTICAL AND DIAGONAL STIFFENERS TO BE AN442 D5 EXCEPT AS NOTED BY ⊕ WHICH INDICATES AN442 D6

AN442 D5 RIVET DIA. HOLES NOT TO BE DRILLED UNTIL KEELSON IS IN PLACE

-5 .030 GUSSET R.H. SIDE

AN442 D6 ON ASSEMB. OF BLKD.

-8 .030 GUSSET

-7 .030 GUSSET

ALL RIVETS IN THIS ROW AN442 D6 ON ASSEMBLY OF BULKHEAD

-4 .030 GUSSET R.H. SIDE

28B039-2

28B039-3

THEORETICAL KEEL LINE

BASE LINE

STA 2 — STA 1.33 — STA 1.66 — STA 2

8 — 16 — 12 — 24 — 64

.063 x .156 x .060 BULB ANGLE DIE "K-1559
-10, -11, -14, -15.
1 x 1 1/16 x 1/16 BULB ANGLE DIE "K-1298
-30, -31.
3/4 x 3/4 x 1/16 PLAIN ANGLE DIE "K5401
-12, -13, -16 TO -29 INCL.

1 3/8 x 1 3/8 x .075 BULB ANGLE DIE "M-5009
-32, -33

AL ALLOY SHEET SPEC. 47A0 COND T
-2 TO -9 INCL. & -34-35,36

SEE 28B043 FOR SECTIONS C-C & A-A
SEE 28B038 FOR SECTIONS B-B, E-E & H-H

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
A.P	ALUMINIZED PRIMER
C	CADMIUM PLATE

GP-GREEN PRIME

FINISH:
EXCEPT ON ASSY.
EXCEPT ON PARTS & FUTURE

H 73

28-5 MH	28B1000	1							
28-5 MB	28B1000	1							
28-5 MA	28B1000	1							
28-5 MA	28B1000	1							
PB1-5	28B4000	1							
PB1-5	28B1000								
PB1-4	28B4000								
PB1-3	28B4000								
PB1-2	28B4000								
PB1-1	28B4000								
B.M.	MODEL	WEIT ASSY	REQ.	PARTS					
REQUIRED TYD FOR AIRPLANE				MAT.	PARTS LIST FOR ASSY.				
AC									
NAVY NOTED	NOTED	NOTED	NOTED						
MATERIAL	SPEC.	HEAT TREAT	FINISH						

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

REPLACES 28B0041 OF 8-8-34

APPROVED 3-26-37

SCALE 6"=1'-0"

NAME KEEL TRUSS - HULL STA. 1 TO 2

J 28B1041

H 74

SECT. E-E
SCALE: 1½"=1'-0"

SIDE VIEW OF STEEL FITTING AT KEEL ℄
SCALE: 1½"=1'-0"

INCORPORATES
REV 1 SHROUD CHANGE
REV 2
REV 3

2SB101-7 R.H.
2SB101-8 L.H.

2SB101-7 L.H.
2SB101-8 R.H.

2SB101-5 L.H.
2SB101-6 R.H.

2SB101-1 L.H.
2SB101-2 R.H.

SEE END DETAIL J AS IN SECTION B-B AT THIS PLACE ONLY. (F)

L.H. 2SB102
R.H. 2SB102-1

2SB105

Q4305-D6

2SB1097

(M) 2SB076-3 (REF)
2SB076-7

2SB076-4 (REF)

2SB076-2 (REF)

(M) 2SB076-3 (REF)

(L.H. -6, R.H. -7) (Q) MAKE FROM Y-2-A2ST, OR K5401, AL. ALLOY EXTR., (R) SPEC. QQ-A-354-T.
CUT CORNER ON LINE AND OMIT FORWARD RIVET.

RELOCATE Q4305-D4 IN CHINE AFT OF STEP (M)

Q4305-D6 RIVETS SPACED @ 1½ & 2½ OVERBOARD

SECT. A-A
SCALE: 1½"=1'-0"
W.S.

6 R.

℄ STA. 4.75

2SB1442

2SB1443

℄ HULL

(L.H. -5, R.H. -4) (K) MAKE FROM Y-2-A2ST, OR K1288, AL. ALLOY EXTR., SPEC. QQ-A-354-T.

ALL RIVETS Q4305-D6 & AN 442-D6 IN THIS LOCATION

HULL DECK PLATING

Q4305-D6

HULL BOTTOM PLATING

SECT. D-D
SCALE: 1½"=1'-0"
W.S.

(N) 97°

2SB106

AN442-D6

2SB1097

1¼ APPROX.

SECT. G-G
SCALE: 1½"=1'-0"

VIEW F-F
SCALE: 1½"=1'-0"

(B) 2S-B-5019 FILLER SECT. (J)

SECTION J - END DETAIL CUT -13 B-14

(F) (-14, -13) L.H. (-4, -5) R.H. 1×3/8×1/8 BULB ANGLE DIR K-1288 SPEC. 4SAB COND. T AL. ALLOY

℄ STA. 4.75

Q4305-D6

2SB118

AN442-D6 RIVETS

2SB102 (REF)

SECT. B-B
SCALE: 1½"=1'-0"
W.S.

STA. 8

(K) OPTIONAL AT 2 OUTBOARD

OPTIONAL AT 2 OUTBOARD

BULKHEAD ℄ 8 2SB1800 (REF.)

HULL BOTTOM PLATING

L.H. 2SB1097
R.H. 2SB1097-1

Q4305-D6 SPACED 1¼ & STAGGERED

L.H. 2SB102
R.H. 2SB102-1

(P)

VIEW K-K (L)

SECT. C-C
SCALE: 1½"=1'-0"
W.S.

FINISH CODE
Z IMPRG TREATMENT
P 9-20 PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE

PSY-42-B ONLY (Q)

HULL ℄ STA. 8

INCORPORATES
XPBY-1 BUREAU CHANGE # 17
PBY-1 " " " 108
PBY-2 " " " 66
PBY-3 " " " 44

MAKE FROM SEC. M928 SPEC. 46A9 COND. T
FINISH: Z-P-2 REQ'D
ANODIZE, 927 PRIMER, GREEN PRIMER

NOTE: CLAMP 28B2049 IN PLACE AGAINST BULKHD. FITTING WITH FABRIC BETWEEN FITTINGS & BULKHD. BEFORE DRILLING ATTACHING HOLES. HOLES TO BE DRILLED NORMAL TO BULKHD. FLANGE (SEE B-B)

28B2049-5 PBY-2 ONLY
28B2049-6 PBY-3 & ON

B-B

AN380-2-2
AN-5-7 BOLTS
AN320-5 NUTS
OMIT WASHERS
-04-1 ASSEM. ONLY

AN5-11A BOLT
AN365-524 NUT
-55 ASSEM AS NOTED

BOLT: AN5-10
NUT: AN310-5
COTTER: AN380-2-2
WASHER: AN960-5/16
-06-1 ASSEM. ONLY

SCALE 12"-1'-0"

THE PARTS SHOWN IN THIS GROUP TO BE USED ON PBY-2 & ON

SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
H	TRACED	2-25-37	(illegible)
J	CHANGED 28B047 TO TREAD IN STR. R/H, AN525 28D047-1 TO BE IN RIGHT (R.H.)	3/1/37	(illegible)
K	INCORPORATED C.O. 7099	4-1-38	(illegible)
L	ADDED 28B3442-L&R TO REPLACE 28B3442-1 (-04-55 Assy) & FUTURE	11-2-39	(illegible)
M	7 OF 8 2ND VIEWS ADDED	1-29-40	(illegible)
N	2 # 8 SS RIVETS 3" APART OMITTED	11-20-40	(illegible)
O	ADDED -10R & -10L PARTS, AN365-524, AN960-616, AN380-2-2, AN3-10, AN320-5 & AN5-7 REMOVED FROM -55 ASSY AN5-11A SECTION C-C ADDED -10R & -10L PARTS, AN365-524, AN960-616, AN380-2-2, AN3-10, AN320-5 & AN5-7	-	-
P	DWG ADD 28B1099-10PP, -04 & -55 ASSY (-04-1 & -55 OPP) B/M ADDED. -550.455 Y	12-4-41	(illegible)
Q	ADDED -12 TO DWG. PART, NO WT. CHG	8-20-42	(illegible)
R	CREATED -550 ASSY WITH 28B1099-10PP & 28B1099-11PP	8-24-42	(illegible)
S	CHG 28B3442-R TO 28B3442-R, CORRECTED -550, REQ'D 28B3442-R STR. EXCEPT AC. PLANE REQ'D 28B3442-R WITH FLANGE 7/16	-	-
T	ADDED NOTE "ON FACE OF DWG IN 28B1936-4 PART, TIME HOLE FOR ALTIMETER CABLE & NOTE MOVED TO LEFT HAND SIDE OF FLAT HAND SIDE	5-6-43	(illegible)
	RESTRICTED -550 ASSY UP TO MCR254-3 & -650 ASSY TO MCR254-A W/T. CHG. REQ.	-	-
	ON FACE OF DWG IN 28B1936-4 PART, TIME HOLE FOR ALTIMETER CABLE & NOTE MOVED TO LEFT HAND SIDE OF FLAT HAND SIDE	-	-

EQ. AERO. MCA-718 MCR254-3

25176
24883

OMIT RIVETS IN THIS SPACE UNTIL INSTALLATION OF BRACKET "28F139

W3 UNDER 28BM429 & 28B1429-1

Q4305-D4

⑤ 13/32 DIA HOLE THRU SKIN TO MATCH 28B1428-7 TL (R.H.) THIS HOLE FOR ALTIMETER CABLE (SEE ⑦) FOR INSTALLATION OF CABLE

28BM429
28BM429-1

28B1049

AN539-00-3 DRIVE SCREW
DRILL #53 (.059) 2 HOLES IN EKN SKIN

ALUM SHIM PER 3.14

MODIFY AS REQ'D (TO SUIT INSTALLATION)

CLIP ON -04-1 ASSEM. ONLY.

28B1412 (REF.)
28B1400-14, -15, -16A-7 (R.H.)

Q4305-D6 IN OVERLAP

7 1/4
3 3/4

Q4305-D4

28BM428-6
28BM428-7L

AN24-13 BOLT
AN320-4 NUT
AN380-B2-2 COTTER
AN960-4/6 WASHER

Q4305-D4

AN539-00-3 DRIVE SCREW

Q4305-D4

AN24-13 BOLT
AN320-4 NUT
AN380-B2-2 COTTER

BULKHEAD "4 28BM400 (REF.)

33 3/32

W3 UNDER FITTING 28B047

-12 FOR -550 ASSY. TRIM TO FIT ON INSTAL. (MAX. FOR -12 SHIP "153 & ON)
-2 072 x 2 1/2 x 1 1/8 AL ALLOY SHT SPEC #7A10 COND. T. FINISH: Z-P-AKV ON PBM 2-P-GP ON PBY'S & FUTURE

AN442-D6

⑤ 072 x 8 x 3 AL ALLOY SHEET - SPEC #3A10 COND. T FINISH: 2-P-AKV ON PBM 2-P-GP ON PBY'S & FUTURE

Q4305-D6

Q4305-D6

INCORPORATES
XPBY-1 BUREAU CHANGE # 17
PBY-1 " " " 108
PBY-2 " " " 66
PBY-3 " " " 44

NOTE: CHANGE "O" APPLIES TO PBY-5 SHIP "154 & ON INCL. ALL FUTURE.

28B1099 REF. (28B1099-10PP)

28B1099-1 FOR -04-55 ASSY
28B1099-0 OPP
28B1099-6L FOR -550 ASSY
28B1099-6R OPP

Q4305-05
Q4303-08

Q4305-06

28B047

SECTION A-A

28B5047-L FOR PBY-5 & ON

-10 SEE DETAIL

AN442-D4 (3)

SYM STA "0

SECTION C-C

FOR PBY-5 "154 & ON ALSO ALL FUTURE

SIDE VIEW

DRILL 5/32 HOLES

-TOP VIEW-

DETAIL -10L -10R OPP.
FULL SIZE

MAKE -10 PER SAMPLE FROM YG A23T TRIMMED TO SIZE

(CONT. AT LEFT)

28B1028-10R					
28B1028-10L					
AN960-516					
AN380-2-2					
AN3-10					
AN5-11A					
28B5047R					
28B5047L					
28B047-1					
AN320-5					
AN5-7					
Q4305-08					
Q4305-06					
Q4305-05					
Q4305-09					
AN442-D6					
AN960-516					
AN380-2-2					
AN3-10					
AN320-5					
AN5-7					
AN365-524					
AN960-616					
AN380-2-2					
AN320-5					
AN24-13					
AN24-11					
28B047					
28BM429-1					
28BM429					
28B1049					
28B1099-6L					
28B1099-6R					
28B1099-1					
28B1099-0					
28B1099-6L					
28B1099-6R					
28B1099-1					
28B1099-0					
28B1028-6L					
28B1028-6R					
28B1049					

-6	PBY-5	28B6000	VA	28B1429	
-5A	PBY-5A	28B5300	VA	28B1428-7R	
-5AHN	PBY-5AHN	28B5300	VA	28B1428-7L	
-5HC	PBY-5HC	28B5300	VA	28B1428-8	
-5AHN	PBY-5AHN	28B5300	VA	28B1428-8L	
-6	PBY-5	28B6000	VA	28B1099-6L	
-5A	PBY-5A	28B5300	VA	28B1099-6R	
-5HC	PBY-5HC	28B1000	VA	28BM428-1R	
-5AHN	PBY-5AHN	28B1000	VA	28B1428-8R	
-6	PBY-5	28B1000	VA	28B1049-6	
-5A	PBY-5A	28B1000	VA	28B1049-5	
-5HC	PBY-5HC	28B1000	VA	28B1049-8	
-5AHN	PBY-5AHN	28B1000	VA	28B1049-8L	
-6	PBY-5	28B1000	VA	28B1049-6L	
-5A	PBY-5A	28B1000	VA	28B1049-6R

SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE
Q	RADII 7 20 14	
V	INCORPORATED COMPLETE CHANGE ORDERS "A & B"	
K	REVERSED DIRECTION OF STRING. 1 HAS 5 - 5 HAS 1	11-17-43
L	CORRECTION OF STRING ON 1 HAS 5 - 5 HAS 1	11-17-43
M	REVERSED DIRECTION OF STRING ADDED 1/4 DIM.	
N	ADDED NOTE "OMIT THESE RIVET	
O	ADDED -28 & -550 ASSY	
	REPAIRS - 6	
P	ALUM. ALLOY SHEET W	
	ALUMINUM ANGLE SECTION N	
Q	-14 & -15 R&S 10 MM 24 T	
R	ADDED NOTE "OMIT THESE RIVETS"	
S	CHANGED BM REQ'D FOR	
	BREAK FROM 18 TO 14 INCH	
T	ADDED STRINGER AND LOC	
U	DIM. WGT. CHG. NEG.	
	NOTE "MAKE -6 --- FROM Y-2-A 12"	
	WAS: 3/16 --- 18 & NOTE "DELETE"	
	Y-6-A17 "MAKE 1/4 --- 8" W CHG NEG.	
V	28-550 ASSY "25 WAS -22, -26 WAS -19.	
	ADDED NOTE "MAKE --- 64.89" DIM'S 1/4	
	WAS 1/4 & 3/16 WAS 3/16 WT CHG NEG.	

E.O.34940

E.O. A-1408

E.O. 81765

E.O. 84470

14 7/16

2 1/2

2 1/2

-20

-21 TEMPORARY TIE

-20 .040 GUSSET

SKIN LINE (INSIDE)

30 1/8 R.

BELT FRAME SYTMETRICAL ABOUT ℄ EXCEPT AS NOTED

27

5 1/2

51 29/32

-14

-13

-16

-17

-12

-3

CHINE

-10

-11

-4

5 3/16

-18

-1

-8

-9

-6

-7

-2

-5

-23 FOR -550 ASSY

-5 FOR -0 ASSY

-25 030 WEB FOR -550 ASSY

-5 .015 WEB FOR -0 ASSY

OMIT THESE RIVETS
DO NOT DRILL HOLES
RIVET TO BE REPLACED
AT INSTALLATION OF
28F1423 BOMB SIGHT
SUPPORT

SPLICE

MASTER JOINT

SEE DETAIL H FOR TYPICAL CONSTRUCTION

OMIT RIVETS IN THIS AREA UNTIL INSTALLATION OF 28B4266-6

NOTE
DRILL HOLES BUT LEAVE OUT
RIVETS WILL BE PUT IN AT FINAL
ASSY. WHEN 28F1422 IS INSTALLED

3/16 x 3/16 x 1/16 ANGLE
ALCOA DIE "K 8401
COMM.ºZ ONLY 1-1-44

-22

AN442-D6

BELT FRAME

AN442-D6

REELSON REF.

DETAIL - P
(COMM. "Z" ONLY)

SECTION LL

SECTION AA

ANGLE OF BOTTOM LEG OF BULB BENT TO CONTOUR AS SHOWN-ANGLE TAKEN AT STRINGERS, AS SHOWN, FOR CONVENIENCE IN LOCATING

LOCATION	ANGLE
HEEL	8° 0'
A	27°
B	26°
C	24° 30'
D	23° 30'
E	21°
CHINE	0° 0'

DETAIL H

28B077 CLIP

SECTION K-K

SECTION N-N

VIEW M-M

LIST OF DASH NOS. WITH MATERIAL FROM WHICH THEY ARE MADE

FOLLOWING EXTRUSIONS SPEC 46A9 COND T
7/8 x 3/4 x .060 EXT BULB ANGLE DIE #K1559
-21
5/8 x 5/8 x .060 PLAIN ANGLE DIE #K9876
-18

MAKE -6, -7, -8, -9, -10, -11, -12, & -13 FROM Y-2-A12T (U)

1/2 x 1/16 x .040 ALUM ALLOY SHEET (P)
SPEC 46A10 COND A HEAT TREAT SR-53
-16, -17

1/2 x 1.0 x .051 GENT. ANGLE
SPEC 46A10 COND A HEAT TREAT SR53
-19

AL ALLOY SHEET SPEC 47A16 COND T (V)
-5, -20, -25

FOLLOWING EXTRUSIONS: SPEC 46A9 COND A HEAT TREAT SR-53, COND T
7/8 x 3/4 x .060 EXT BULB ANGLE DIE #K1559
-14, -15 (Q)

MAKE 2 1/2 FROM Y-6-A6T (U)

MAKE -26 FROM K1288 AL. AL EXTRUSION 4-A9T (V)

RIVET NOTES
ALL RIVETS TO BE AN426 DS UNLESS OTHERWISE NOTED
ALL RIVETS NOT LOCATED BY DIMENSION ARE TO BE EQUALLY SPACED AS SHOWN

REF DRAWINGS
BULKHEAD ANGLES 28B036
HULL OUTFITS 28B003
STRINGER SPACING CHART 28B1007

CP-GREEN PRIME

FINISH △	
Z	ANODIC TREATED
P	K-51 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMATE PRIMER

VIEW SHOWN LOOKING FORWARD

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
D	REVISED - ADD TO DATE	7-15-43	[illegible]
E	CHANGED DIMENSIONS Ø.635 TO .64		
	PER CO 6526-38-2857	10-13-43	[illegible]
F	ADDED 2 REQ'D	10-27-43	[illegible]
G	-12 WAS .5 -11 WAS .5 (IN BOX)		
	2¾ DIMS. WAS 2⅝ - ADD WT CHG	2-19-44	[illegible]
H	ADDED "FROM 1/16" NOTE. NO WT CHG	3-9-44	[illegible]
J	ON PAGE MIRROR IMAGE PATTERN		
	9/16 SPACING WAS 1 1/16 (3 PLACES)		
	1⅛ SPACING WAS 1 ¼ (3 PLACES)		
	ADDED NOTE: "SPOTFACE 9/16 DIA."		
	(NO WT. CHG)	3-6-44	[illegible]
K	ADDED DETAIL -11A-12		
	REMOVED DETAILING		
	DIMS -11B-12 FROM		
	INSTAL. NO WT. CHG.	7-12-44	[illegible]

CO 5525

64"A" BRKD

(K) (41) LH. (REF.)

AN 442-08 3B REQ'D.

IN ORDER TO HOLD DIM. ON RIM EDGE OF PLATE, PLATE MAY BE MOVED FROM EDGE OF BULB ANGLE REDUCING 3/32 (.094) DIM TO A MIN OF 1/16.

THESE DIM MUST BE HELD 3/32 MINIMUM

(42) 6M CORNER PLATE (REF.)

AN 470-3-17 4 REQ'D
AN 24-15 4 REQ'D
AN 320-11 4 REQ'D
AN 320-9 2 REQ'D.
AN 380-2-2 12 EA REQ'D.

AN 442-08 — 94 REQ'D.

SPOTFACE 9/16 DIA.

AN 442-08 6 REQ'D. AN 442-08 4 REQ'D. 288 1400-65

SECTION B-B

AN 442-08 60 REQ'D.

AN 442-08 60 REQ'D.

288 1400-N LH-15RH
288 1400-2 LH-3RH
288 1400-10 LH-11RH
288 1400
288 1401-5

288 1401-4
288 1031
288 1400-8 LH-13RH
288 1400-4 LH-5RH
288 1400-6 LH-17RH
288 1412

AFT.

1.128 AL. ALLOY SHEET 38 X 1016

CHECK WITH GAUGE BLOCK BEFORE RIVETING.

288 1031

AN 24-10 4 REQ'D.
AN 24-15 4 REQ'D.
AN 320-6 4 REQ'D.
AN 380-2-2 8 EA REQ'D.

DUSHIMS 9636-38-895 2 REQ'D.

288 1412

SECTION AA

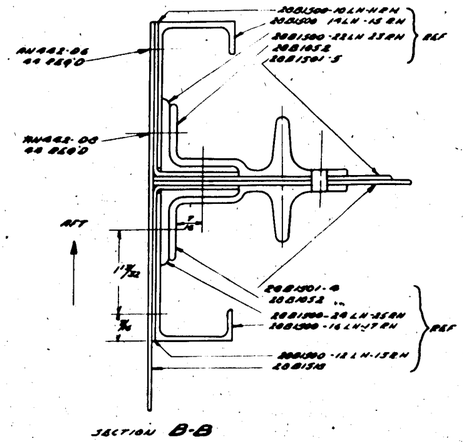
2. SPACE RIVETS APPROX. AS SHOWN
1. ✱ BOLTS
+ RIVETS

H 77

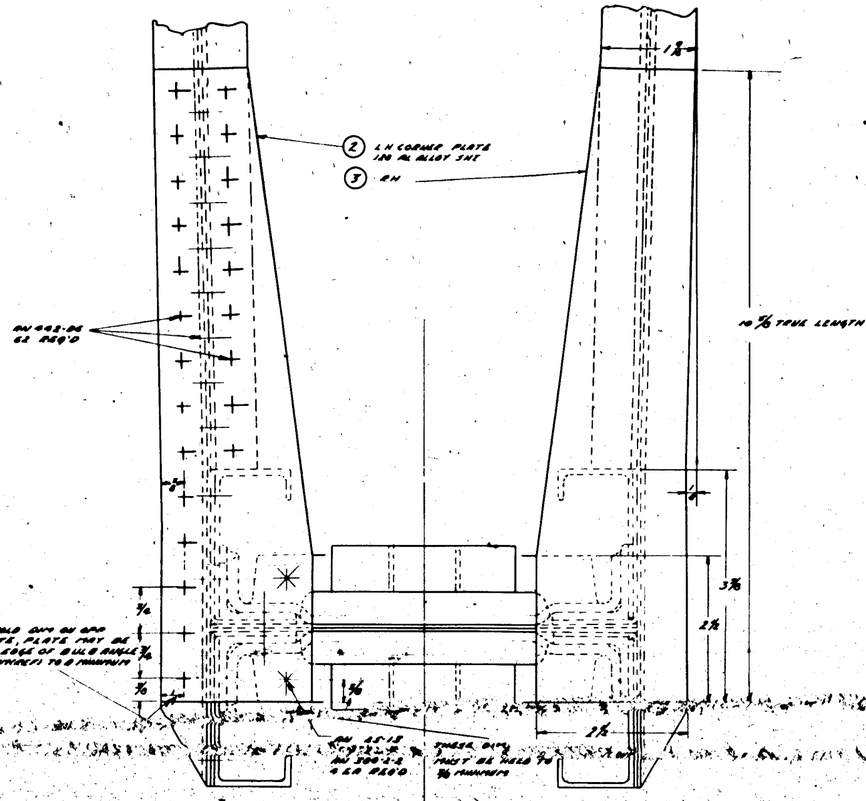
| REPLACES | | |

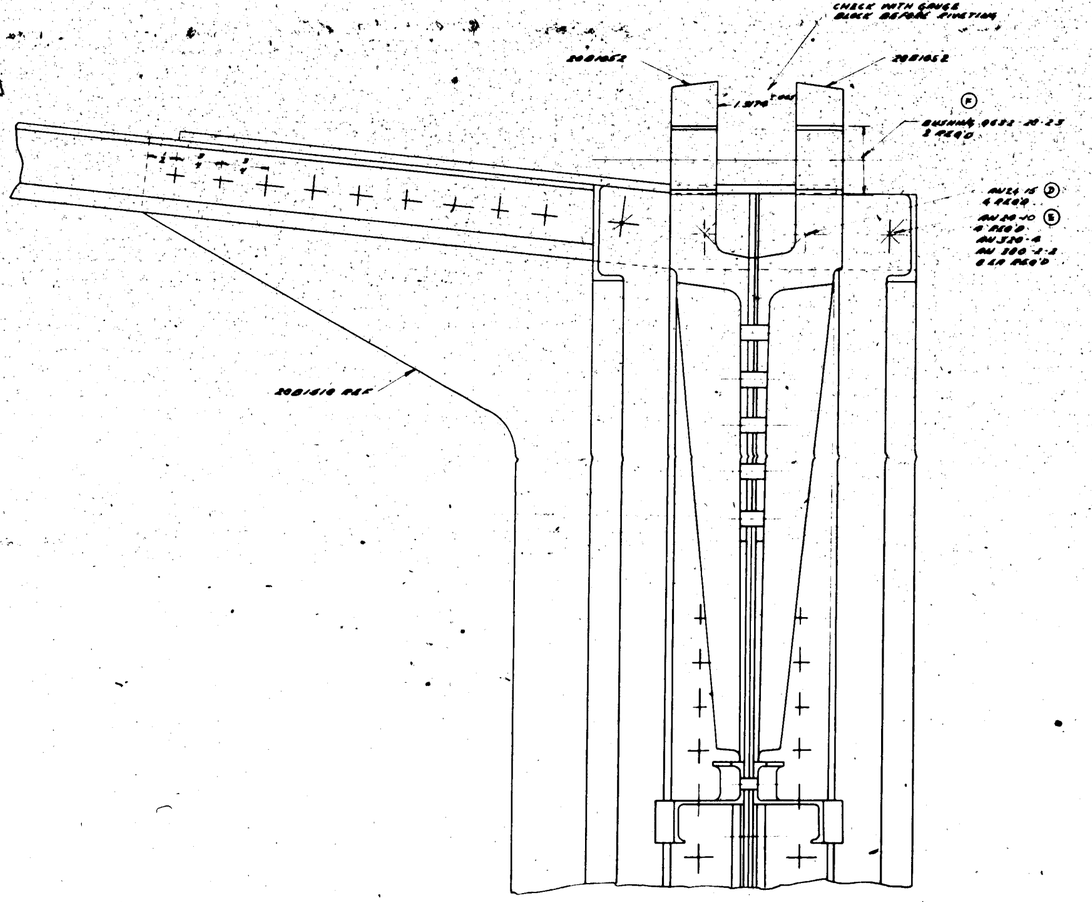
SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
C	7 DRAGS AS PER SPEC	7-24-43	[illegible]
D	CHANGED AN4-25 TO AN 525-6 AND ADDED TRAILAIR	7-24-43	[illegible]
E	AN 96-10 (4) WAS AN 96-11 (6) ADDED SPT GAGE	8-9-43	[illegible]
F	ITEM D. FROM 28B 1500 "A-A" SHEET, DELETED	8-28-43	[illegible]
	ADD SPT. GAGE	9-9-43	[illegible]

EA 21431



SECTION B-B




CHECK WITH GAGE BLOCK BEFORE RIVETING
28B1852
28B1852
1/32 MAX
AN 426 AD 3-2.5 2 REQ'D
AN 426 AD 3-2.5 2 REQ'D
AN 426 AD 3-2.5 2 REQ'D

VIEW P
-55 ASSY
SCALE 6"-1'0"

SECTION B-B
FULL SIZE

SECTION A-A
FULL SIZE

SECTION E-E
FULL SIZE

VIEW M-M
FULL SIZE

VIEW L-L
FULL SIZE

SECTION Q-Q (-55 ASSY)

SECTION N-N
FULL SIZE
XPBY-5 ONLY

SECTION D-D
FULL SIZE

SECTION C-C
FULL SIZE

SECTIONS TAKEN AT STRINGERS

SECTION	Φ
G-G	104°
H-H	105½°
J-J	107
K-K	96½°

VIEW OF STBD SIDE
LOOKING FORWARD ⊗
-60 ASS'Y ONLY

SEC D-D
12"-1'0" ⊗

VIEW PORT SIDE LOOKING FORWARD

ALL RIVETS TO BE AN442D5 EXCEPT AS NOTED

LIST OF DASH NOS. AND MATERIAL FROM WHICH THEY ARE MADE.

K1553	46A9-A	-8,-8,-6,-7,-47
K1563	46A9-T	-19,-20,-46,-61,-71
K540	46A9-T	-4,-5,-11,-12,-13,-17,-18,-26,-27, -49,-53,-70,-72,-73
Y-2-NIZT		-14,-15,16,-56
K635	46A9-T	-24,-29,-30,-31
K6436	46A9-T	-22,-23,-34,-35,-36,-37,-38,-39,-40, -41,-42,-43
(AH) K1600	AL ALLOY	46A9-T -77
.025 SHEET	47A10-T	-23,-52
.030 SHEET	47A10-T	-44
.040 SHEET	47A10-A	-21,-22
.040 SHEET	47A10-T	-25
.064 SHEET	47A10-T	-24,-56,-61
.091 SHEET	47A10-A	-48
Y2-A26T		-9,-10

REF. DRAWINGS:
HULL OFFSETS 289003
BULKHEAD ANGLES 288036
STRINGER SPACING CHART 2881007

SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
	J TRACED UP TO DATE	8-13-42	
	T -81 & -82 WERE W.T. NO CHG	4-24-42	
	CHANGED ANGLES FROM FORGED TO EXT		
U	ADDED IN VERTICAL DIRECTION (TRIMMED IN 289003 SHT 3 GRID)	7-27-39	
V	REPLACE -23 WITH -56	4-27-42	
	ADDED -55 ASSY FOR PBY-5	"	
	REMOVED REBRIS	11-11-40	
W	-9 & -10 WERE X-RAY	11-11-40	
X	ADDED -60 ASSY & REG. FOR AIRPLANE 32052-46 TO -56 INCL. SEE V.O. 8199 VER. 2	4-24-42	
Y	CHANGED THE SHIPS AFFECTED MADE BY CHANGE 1 TO INCLUDE ALL SHIPS	5-2-42	
Z	ON PBY-5 TRIM -80 -82		
	30 31 32 33 34 35 36 37 38 39 40 41 42 43 -INTERCOSTAL & AC CHG		
	-16 RIVET -1/4 DIA. (-82 WAS -68 (NO WT. CHG)	12-12-42	CLARK
AA	-81 WAS -68 (NO WT. CHG)	12-22-42	CLARK
AB	CHANGED RIVETS THROUGH -46 & -48 FROM 3/16 TO 1/4 DIA AND IN END OF -46 FROM 3/16 TO 1/4 NO WT. CHG.	2-2-43	
AC	DELETED 4 -36 RIVETS FROM WEB BETWEEN -42 & -43 NO WT. CHANGE	2-2-43	
AD	ADDITIONAL RIVETS IN -36 & -37 ANGLE -To Prod -17, 71 Prod -18 -32 Prod -26, & -78 Prod -27 NO WT. CHANGE	2-2-43	
AE	DOUBLER LOCATED IN -60 ASSY -47 WAS 3/8 in. 76 mm ABOVE -47 -48 WAS 1/2 in. 76 mm ABOVE -47 WAS 3/8 RIVETS IN -48 & -47	2-2-43	
AF	IN SECT P-P ADDED 1/4 FLANGE TO -56 NO WT CHANGE	2-24-43	
AG	-60 ASSY -82 WAS -81 WT.	2-27-43	
AH	WAS FOR -17, -18 & -19 WAS -16 (-82 WAS -68 & -81) WT CHG NEG	4-2-43	
AJ	-60 ASSY WAS -55 ASSY FOR LH SAME REQ'D -62 U FROM -60 -62 WAS -71 WAS -80 ASSY NO WT CHANGE	5-8-43	
AK	ADDED -77 TO -60 ASSY FOR PB Y-5A ONLY WT CHG +0.4	8-8-43	

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
D	TEXACO UP TO DATE		
E	22⅝ DIM (LENGTH OF WASH)	9-23-37	
F	CREATED -80 ASS'Y ADDED		
	(WT CHGD FROM 7.73 TO 6.91)	4-14-45	
G	CREATED -85 ASS'Y (CLASSIFIED)		
	SAME AS -80 ASS'Y EXCEPT THAT		
	-10 & -11 ¼ REPLACE -2-3 &		
	-4 CLEAR TO FACE OF DWG ADDED		
	DETAILS B & D, SECTION C-C		
	JOGGLE DIM. (2¼ & 16 REF.)		
	LIMITED 22⅝ DIM. FOR -3 & -4		
	ONLY & ADDED 21⅛ DIM. FOR		
	-11 ¼ ONLY. -25 & -27 CHG	2-2-48	
H	FOR CHANGES TO M.C.R.		
	2788 ADDED 288.577 2.11		
	REQ'D TO -30 ASS'Y ADDED		
	PICTURE TO FACE OF DWG		
	W.C.NO. 7.25 FOR -30 ASS'Y	8-3-55	
J	REVISED DRAWING TO SHOW		
	OUTLINE OF -10 READ 0.188		
	10.508, 5.6 1/64 LIMITED		
	THEM TO -10 READ 2 1/16		
	WEIGHT INCREASED 1.13 #.	9-19-61	
	ADDED DETAIL "E" FOR -10		
K	REVISED SECTION	5-15-62	

E.O. # A 32081

M.C.R. 2788-61

M.C.R. 2713-64

DETAIL D
ZONE B-E 6"=1'0"
FOR -11 ¼R ONLY

2881629 (REF.)

OUTLINE FOR -10 ONLY

REMOVE LEG TO 3⅛ DIM.

SECTION C-C
ZONE B-1 12"=1'0"
FOR -11 ¼R ONLY

DETAIL E
ZONE B-1 12"=1'0"
FOR -10 ONLY

NOTCH -6 TO CLEAR 2881038

NOTCH 2880376-11 TO CLEAR 2881038

2 FLAT

5 FLAT

16 FLAT

2881038 (FOR -0.255"t)

Q4306 D6

2880376-11 (REF.)

2881629

Q4306 D4 FLUSH ON OUTSIDE

DO NOT RIVET UNTIL FINAL INSTALLATION

ENDS OF -11 (REF.)

ENDS OF -11 (REF.)

DRILL 9/64 81 HOLES

Q4303 D4 EQUALLY SPACED

(6) (FOR -0 ASS'Y ONLY) .063 x 16⅝ x 36⅝ AL. ALLOY SHEET SPEC. 47AO - COND. T (2437).

Q4305-D6 SPACED APPROX. AS SHOWN

(2) .057 SHEET COND. A

(-10) .057 SHEET COND. T

OUTLINE FOR -10 ONLY

ZONE A-1

CUT IN PLATE

DRILL ¼ 3 DRAIN HOLES

HULL & NOSE PLATE

(7) SEE DETAIL AC427-03 & REQ. CT 34 INSIDE OF -3 & -4

CUT PLATE ON E IF NECESSARY

INSIDE OF NOSE PLATE LOOKING FWD.

DETAIL -7
12"=1'-0"
.051 ALUM ALLOY SHEET 24 ST SPEC 47AO COND. T

SECTION A-A

-3, -4, -5, & -11 ¼R MADE FROM EXTENDED SECTION K-2090

SEE 2873-17 FOR PARTS BLOCK

M.C.R. 2788-A.R. ON

CONT 70496 & 77713 # 1-21
CONT 70496 "21 ON
CONT 70496 "1-24

CONT. 88476 & 77713 # 1-21
CONT 91076

				2881080-11							
-55	PBY-5A	2885010	1	2881080-11							
				2881080-10							
	25-5 MH	2885186	1								
	25-5 ML	2885186	1								
	25-5 MC	2885186	1								
	25-5 MA	2885186	1	AC425-3S	⑥	⑥	⑥	⑥			
	28-SAHK	2885186	1								
	PBY-5A	2884186	1	Q4306 D5							
	PBY-5	2885186	1	Q4306 D4							
	PBY-5	2881048	1								
-60	PBY-5B	2885186	1	2884039	1	1	1	1			
-50	PBY-5B	2885186	1	2884038	1	1	1	1			
-60	PBY-5A	2885186	1		-7	2	2	2	⑥	⑥	
-50	PBY-5	2884186	1		-6	1	1	1			
	PBY-5	2881048	1		-5	1	1	1			
	PBY-3	2884186	1		-4	1	1	1			
	PBY-2	2884018	1		-3	1	1	1			
	PBY-1	2884018	1	2884050-A	1	1	1	1			

D.N.	MODEL	NEXT ASSY.	FIG	PARTS	REQUIREMENTS PER AIRPLANE	MAT.	PARTS LIST PER ASSY.
AC							
NAVY	NOTED	NOTED			NOTED		
MATERIAL		SPEC.	HEAT TREAT	FINISH		DRAFT	CHECK

REPLACES 2884038 OF 8-31-50 — APPROVAL — DATE 7-26-49
REPLACED BY — CALC WT — CHK WT
LIGHT OR DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/64
SCALE 1"=1'-0"

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.

NAME PLATE - HULL NOSE

SIZE A — 2881080 — REV J

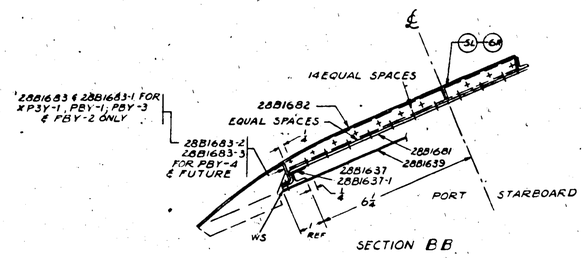
FINISH CODE
F
AP
C

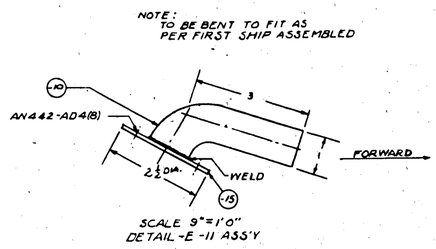
H 80

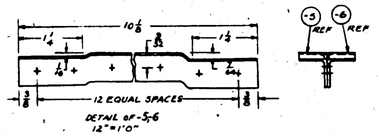
ALL AL. ALLOY SHEET SPEC. 47AO (CONDITION T) ALLOY NOT EXCEPT AS NOTED
ALL AL. ALLOY EXTRUSIONS SPEC. 46AB (CONDITION T) ALLOY NOT EXCEPT AS NOTED
HEAT TREAT ALL CONDITION A MATERIAL PER SPEC. 2557 COND. T
RIVETS AL. ALLOY EXCEPT AS NOTED

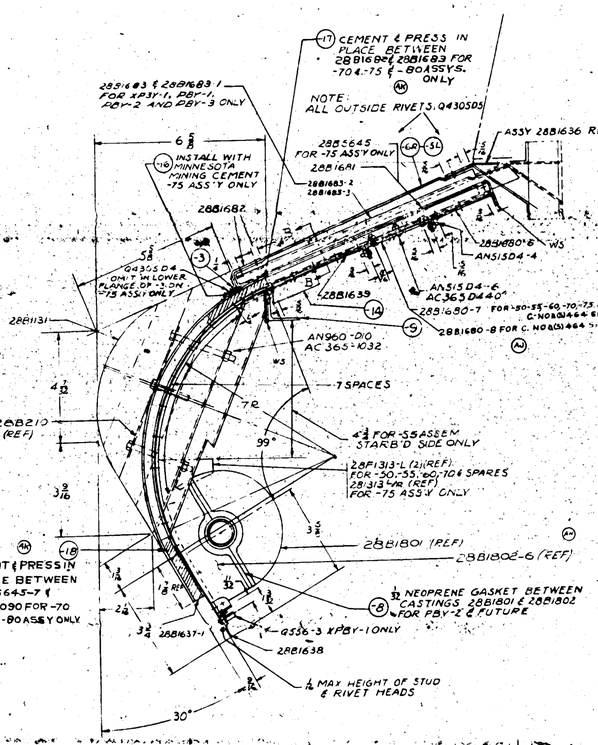
LET	ALTERATION	DATE	BY
AM	ON -1E IN BOM -11 SUB ASSY		
	DELETE //1E850 AL AL SHEET		
	INSTALL WAS ... ORIDE50 "A" PL		
	ADD SHEET 47A & 1/2 R		
	ON -1E IN -80 SUB-ASSY		
	DELETE //1E850 AL AL SHEET		
	INSTALL WAS ORIDE50 "A" PL		
	A.R. SHT. 47A & 1/2 R. NO WT. CHG.		

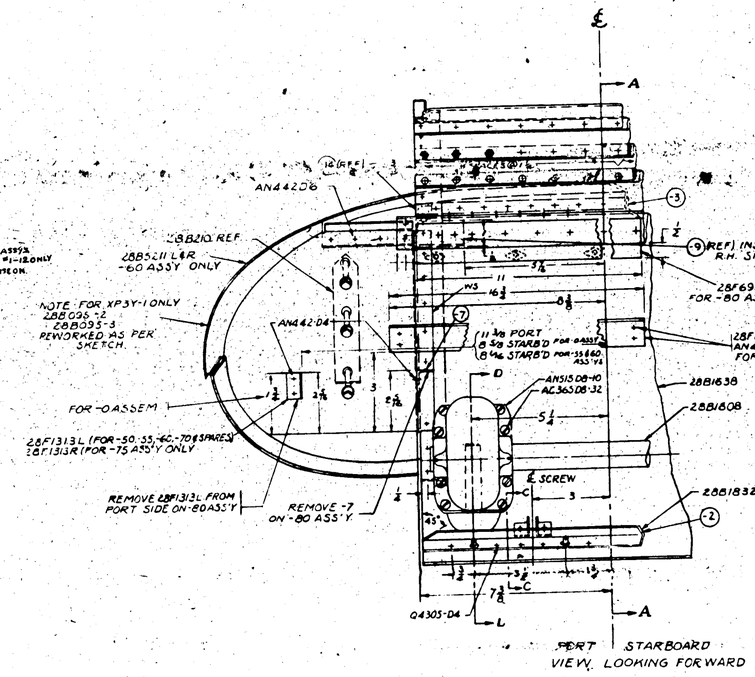
LET	ALTERATION	DATE	BY
AN	TRACED -NO WT. CHG.		
AH	28B1180-6 WAS 28B1183-6 NO WT. CHG.	5-64	
AJ	CREATED -20 SUBASSY WHICH CONSISTS OF -11(QTY 2) & 12 R (1 SHT-47A2 R HD) [-11(QTY 1) & 12 R ASSY TO BE USED IN W/W-T-787 & W/O FOR PBY5A C"NOS 66 & SUBS] & NOTE LIMITED 28B1180-20 TO 12-59-35 -40-70-75 [-80 ASSYS (C"NOS 80 & SUBS] & ADDED -12 SUB ASSY (1) -12 ADDED 28B1680 -80 FOR C"NOS 81-466 & SUBS] & ADDED NOTE 4 "WHERE NECESSARY ---- ASSEMBLY WATERTIGHT - WELDING REQ.	9-64	
AK	SEC A-A ADDED NOTE FOR -18 "CEMENT & PRESS IN PLACE BETWEEN 28B1680 & 28B1683 FOR -70 & -75 [-80 ASSYS ONLY" & ADDED -80 ASSY TO NOTE FOR -17. NO WT. CHG.	12-64	
AL	ADDED NOTE 4 "WHERE NECESSARY ---- ASSEMBLY WATERTIGHT - WELDING REQ.	5-65	

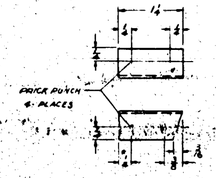


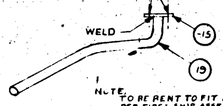




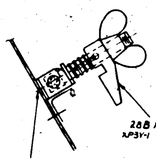


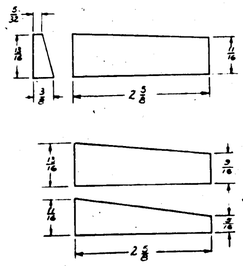


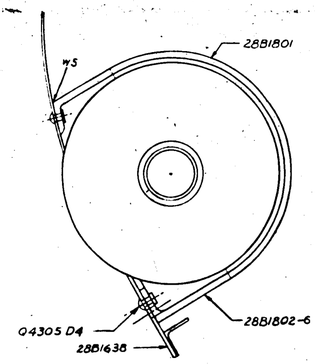


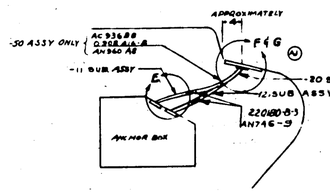


Ⓐ DETAIL G
-20 SUB ASSY
FOR PB5A C"NOS 464 & SUBS THEREON
NOT TO SCALE

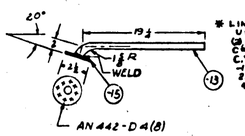








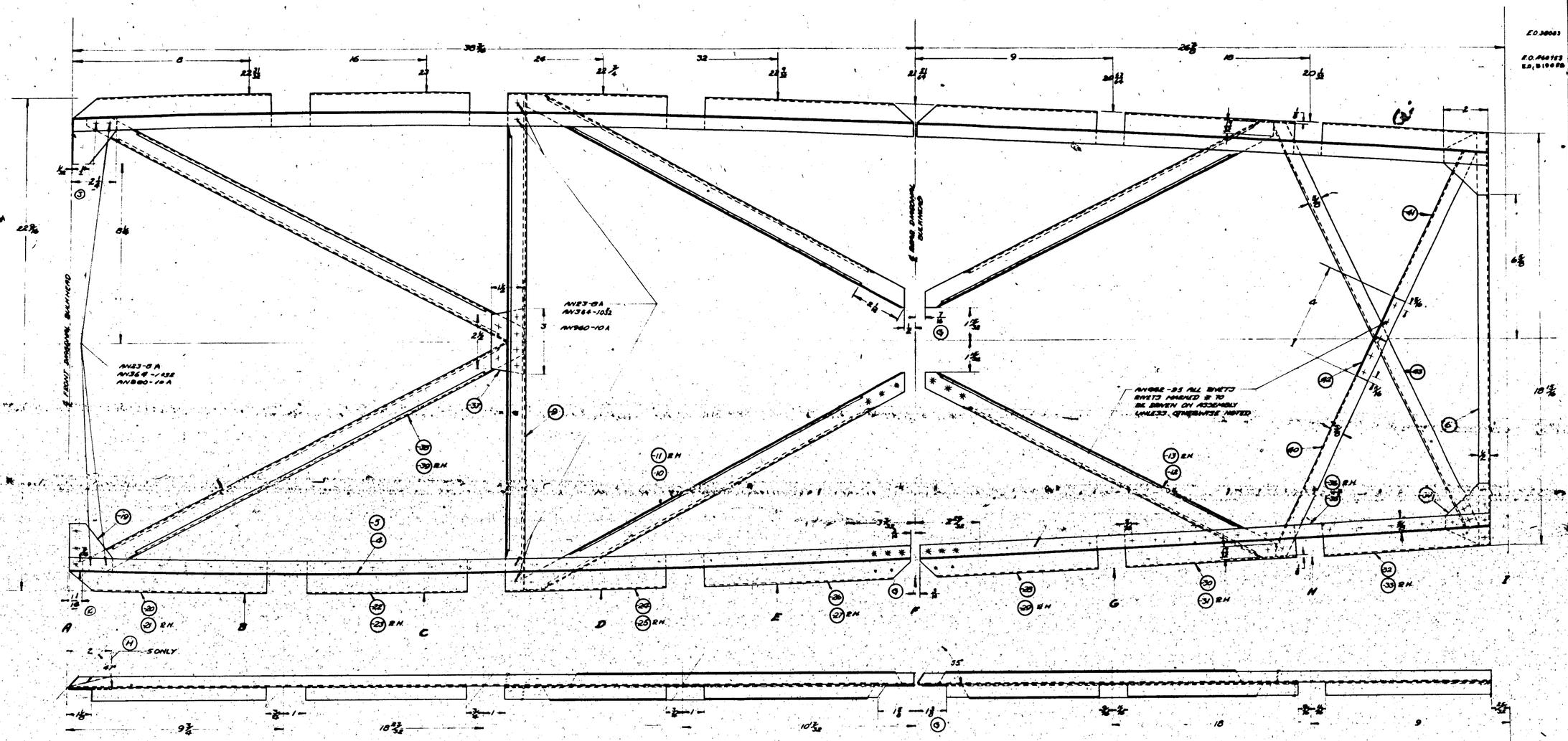
NOTES.
1. USE ZINC CHROMATE TAPE BETWEEN 28B1680-7 & -13 WHEN ASSEMBLED
2. SEAL WITH MARINE GLUE ON FINAL ASS'Y
3. ALL RIVETS ARE AN442D4 EXCEPT AS NOTED. RIVETS NOT DIMENSIONED SPACE EQUALLY AS SHOWN; W.S. WHERE NOTED.
4. WHERE NECESSARY APPLY MINNESOTA MINING CEMENT #EC 244 TO MAKE ASSEMBLY WATER TIGHT Ⓐ

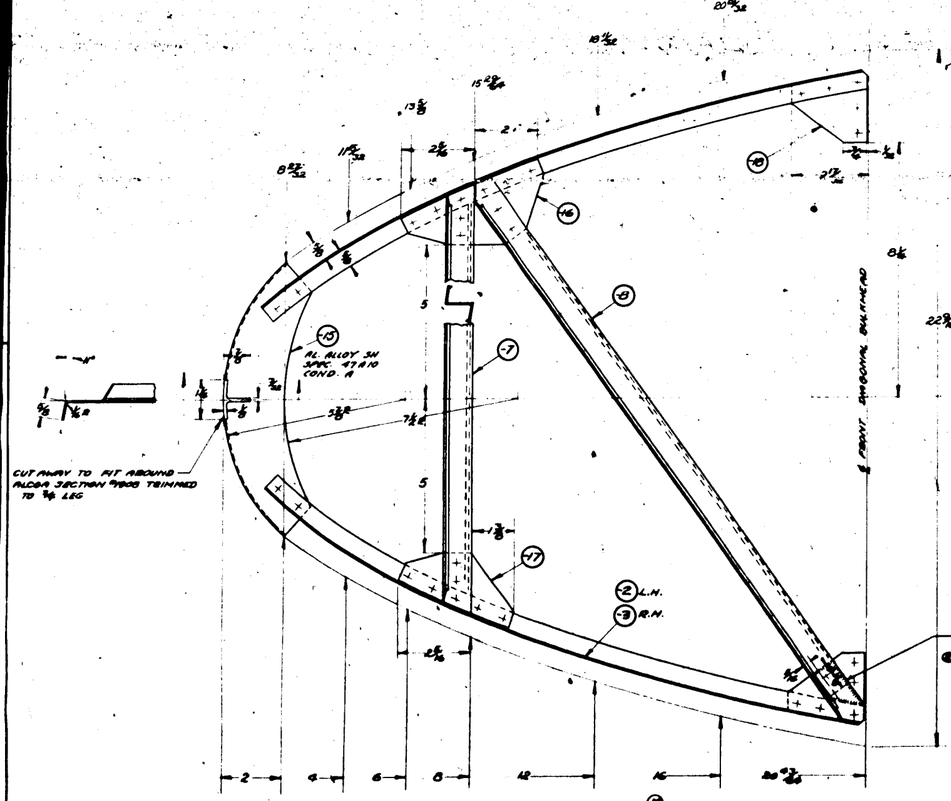


FINISH CODE	
Z	ANODIC TREATMENT
P	ASS'Y PRIMED
CP	CAD OR PRIMER
C	CADMIUM PLATE
WS	WATERTIGHT WELDING

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
D	TRACED	8-24-37	BAC
E	ADDED -44 BRACING BETWEEN -16 & -18	9-2-37	HBS
F	-36 TO -33 INCL. WAS MADE LESS 0.48 AS SHOT 24"	1-21-38	[illegible]
G	AT JUNCTION OF -41-121-13 $\frac{1}{16}$ DIMEN WAS $\frac{5}{16}$, $\frac{15}{16}$ WAS $\frac{7}{16}$	4-10-39	ECH
	ADDED $2\frac{1}{16}$ DIMEN FOR TRIMMING LEG OF -122-41	8-8-39	ECH
	ADDED $\frac{1}{16}$ DIMEN AT JUNCTION OF -22-37-122-13		
H	ADDED 8" TRIM DIMEN AT ENDS OF -5	1-18-39	ECH
J	$\frac{5}{16}$ WAS $\frac{7}{16}$, $\frac{1}{2}$ WAS $\frac{5}{8}$		
K	$1\frac{1}{16}$ WAS $\frac{7}{16}$	2-6-40	KBC
L	AN-23-84 (6) AN364-832(6)	E.O.38063	
	AN960-10A (6) WERE AN23-6,		
	AN338-3 " AN960-10, AN381-32-2	5-17-41	LNX
M	CREATED -55 ASSY WAS "-3"	E.O.A60783 E.O.B100978	3 SEPT 43
N	IN MAT'L NOTES "MAKE ---36 & 37" WAS "38 ---96," & MAKE ---V-37 -ABT" WAS "7/8 E ---39" WT. CHANGE-0.3 LB EACH		





SECTION	ANGLE
A	13½°
B	11°
C	9½°
D	7½°
E	6½°
F	4½°
G	3½°
H	2½°
I	1°

MATERIAL NOTES:

(N) MAKE -2,-3,-4,-5,-6,-35,& -36 FROM Y-6-A6T.
MAKE -7,-8,-9,-10,-11,-12,-13,-38,& -39 FROM Y-37-ABT.

DRG SHEET -15,-16,-17,-18,-19,-34,-37,40,41,42,43.

TRIM ALL OUTSTANDING LEGS OF ANGLES & ZEES AT 30°

(F) 1/2 = 1/16 = .040 DRAWN ANGLES SEC. 19-925 -20 TO -38 INC.

H 82

ALL AL ALLOY SHEET SPEC. 3 (EQUIVALENT TO) ALLOY 24T EXCEPT AS NOTED
ALL AL ALLOY EXTRUSIONS SPEC. 6 (EQUIVALENT TO) ALLOY 24T EXCEPT AS NOTED
HEAT TREAT ALL CONDITION & MATERIAL PER SPEC 3563
SHEETS AL ALLOY EXCEPT AS NOTED.

REPLACES 288108	K.P.A.	5-27-37			
REPLACED BY	CHECKED	DATE			
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± .015 & ½°	[redacted]	ACT WT.			
	SCALE 6"=1'-0"				
	NAVY NOTED	NOTED	NOTED	NOTED	
	MATERIAL	SPEC.	HEAT TREAT	FINISH	
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.	NAME	B2B - HULL LOWER FIN-LOWER			
STAMP PT. NO. WHERE SHOWN					

| | | | | |

LET	ALTERATION	DATE	BY
D	TRACED UP TO DATE	8-16-94	V10
E	AT -A87 END OF -30 DIMEN. 1/16 WAS 1/8. AT INTERSECTION OF -2 & -27 ADDED 1/8 DIMEN 1 3/8 WAS 1 5/8 AT FORWARD END OF -28 DIMEN. 1/16 WAS 1/8	6-1-93	MA
F	2 1/16 WAS 2 1/8 WAS 2 1/16	6-8-93	MA
G	2 7/16 WAS 2 1/8 / WAS 2 1/16	6-8-93	MA
H	AN365-624 WAS AN425-8 - AN365-1032 WAS AN365-8 w AN960 8-1-8	8-17-93	E.R.R.
J	ADDED -33 (AN515-DB-DB) & AC372-DB3E(2) WT CHG MIN.	7-21-94	KMM
K	CHANGE -66 ASSY WT CHG MIN.	7-26-94	KMM
L	REVISED REF DIM. & WT CHG.	7-26-94	KMM
M	R DIM WAS 5 1/16 NO WT CHG.	7-26-94	KMM
N	P 3/4 DIM WAS P1. -34 WAS -11 & -37 WAS -23	7-26-94	KMM
P	MAT'L NOTE "MAKE --- FROM Y-6-A61" WAS "ANGLE 5/8 x 1/2 x 1/16 AL-CAD 4 9876-2,-3,-4,-5,-27,-28,-32" & "MAKE --- FROM Y-37-A81" WAS "ZEE Z ALCAD 4 9868-6,-7,-29,-30,-37" WT. CHG. MIN.	8-1-94	KMM

Section	Angle θ
A	10½°
B	8½°
C	7½°
D	6½°
E	5°
F	4½°
G	4½°
H	3½°
J	3½°
J	3°

BEND LEG OF ANGLE TO SAME ANGLE AS THE FORMER SHEET IN THE REGION OF THE STRINGER CUTOUTS ONLY

TYPICAL SECTION A-J INCL.
FULL SIZE

MATERIAL.

(P) MAKE -2,-3,-4,-5,-27,-28, 1/2 -32 FROM Y-6-A61.

MAKE -6,-7,-29,-30,-37 FROM Y-37-A81.

SHEET ~ 040 -8-9-10-11-12-15-14-15,-16,-17,-18,-19-20, 21,-22,-28,-24,-25,-26-34
TRIM ALL OUTSTANDING LEGS OF ANGLES AND Z TO 50°

SHEET - 064 -31

| REQUIREMENTS PER AIRPLANE | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LIST	ALTERATION	DATE	BY
Q	TRACED TO DATE	6-23-41	
S	ADDED 288 1088 A FOR PBY-5 REQMTS	6-29-41	
T	AN3-7A WAS AN73-10	7-8-41	
U	ADDED -12 -13 AN442-D4	10-10-41	
V	*11 K 1227 WAS K 112.71	11-11-41	
	044 PBY-5 ONLY		
W	ADDED -12 -13 AN442-D4	10-10-41	
X	ADD 1/16 MAT'L	10-1-42	
Y	REM. 4-1/2 LOC. RIVETS (WT. CHG. NEG.)	10-2-42	
Z	ADDED NOTE "DRILL - THIS HOLE ON STBD SIDE ONLY" (NO WT. CHG.)	8-2-42	
AA	-10 WAS 288 1119 DUPRENE WAS -10	3-12-43	
AB	REMOVED AN515-8-16 AC 288 SCREWS & NUTS, BOTH NUTS & SCREWS TO BE 8-32 STL. REPLACED BY AN515-8-24	10-9-43	

E.O. 7705
E.O. 16849
E.O. 19857
E.O. 22643
E.O. AL30188

W. ADDED -12 -13 AN442-D4
X. ADD 1/16 MAT'L
Y. REM. 4-1/2 LOC. RIVETS (WT. CHG. NEG.)
Z. ADDED NOTE "DRILL - THIS HOLE ON STBD SIDE ONLY" (NO WT. CHG.)
AA. -10 WAS 288 1119 DUPRENE WAS -10
AB. REMOVED AN515-8-16 AC 288 SCREWS & NUTS, BOTH NUTS & SCREWS TO BE 8-32 STL. REPLACED BY AN515-8-24

(W) DRILL 3/8 DIA. HOLE AS SHOWN FROM PLATE ON DRAIN
SYMMETRICAL ABOUT ℄ EXCEPT AS NOTED
AN442-D6
-12 1/2 NEOPRENE SHT
AN442-D4
THIS STOP ON STBD. SIDE ONLY
10 1/2 ± 1/4
18 3/16 R.
37.375 D. REF.
L.H. -8 3/8 x 3/4 ZEE DIS K 5448 SPEC 44A9 COND. T
R.H. -6
288 1345-2 REF.
AN442-D6
15 3/8
15 3/8
AN442-D6
288 1102-7
THIS STOP ON PORT SIDE ONLY
7 1/16 ± 1/64
AN442-D6
288 1345-4 REF.
℄ RIVETS REF.
28B5158
AN442-D4
-13 1/2 NEOPRENE SHT
DRILL 7/8 DIA. HOLE THRU ANCHOR BOX
288 1345 TO BE INST'L'D. ON STBD. SIDE ONLY ANCHOR BOX
ON L.H. SIDE ONLY DO NOT DRIVE THESE RIVETS UNTIL INST. OF ANCHOR BOX
(2) ℄ DRILL - THIS HOLE ON STARBOARD SIDE ONLY
DRAIN HOLES L.H. SIDE
R.H. ONLY (7)
(5) AN442-D4
AN442-D4
20
THIS TUBE & ITS HOLES ON STBD. SIDE ONLY.
(AA) -10 1/16 x 2 3/4 x 17 DUPRENE SPEC. COMM.
288 1888
18 3/4 TO DECK LINE
-1 1/4 ACT.
J J
1/4 1/4

SECT. F-F
6" = 1'-0"

288 1608 (REF.)
SECT. H-H.
12" = 1'-0"

288 1608 R.H.
288 1608-2 L.H.
-2 .051 AL. ALLOY SH. 67A10 .2460 COND. A
-3 R.H. HEAT TREAT. BR-55 CONST
SECT. A-A
12" = 1'-0"

288 1066 REF.
SECT. G-G STBD. SIDE

SECT. I-I

SKIN
SECT. J-J

TRACK
288 1904
TAP 10-32 NF2
SECT. THRU STOP

-11
1 1/4
3/32
9/16
V
MAKE SHIM FROM K11271
24ST AL. ALLOY EXTR. SPEC. 46A8 CONST. K-12271 FOR PBY-5 ONLY

-8 LENGTH 1 1/2
3/4 x 3/4 x 1/16 AL. ALLOY PLAIN ANGLE ALCO DIE K5401 SPEC. 44A9 CONT. (24ST) H.T. NONE
288 1699 L.H.
288 1699-1 L.H.
AN442-D6
288 1066 REF.
SECT. C-C
6" = 1'-0"

TOP OF GUN TRACK TO DECK LINE
23 5/8
T AN 3-7A
AN 935-10

6 3/8
5 3/8
℄ GUN TRACK
23 3/8
16 3/8
STA. 0.88
STA. 0.00
STA. 1
RIVET TO SKIN
20

④ 288 3036 FOR PBY-3 & FUTURE
288 1686 FOR PBY-1 & 2
D D
C C

-7 R.H. ONLY 3/4 x 3/4 x 1/16 ANGLE DIE K-5401 COND. T SPEC. 44A9
AC 615-08 PLUSH ON INSIDE OF TRACK.
288 1098
288 1098-1
288 1077
288 1077-1
288 1098 L.H.
288 1098-1 R.H.
AN442-D8
288 1100-67 REF.
DRILL #8 CLEAR THRU
1/4 countersink
1 1/4
2 1/2

Q4305-D4 SPACE 1
AC 615-06-6
288 1490 L.H.
288 1490-1 R.H.
288 1091 L.H.
288 1091-1 R.H. } PBY-1 & PBY-2
288 1691 L.H.
288 1691-1 R.H. } PBY-3 & FUTURE
Q4305-D4 ON ASSEMBLY SPACE 1 STARBOARD
SECT. B-B
6" = 1'-0"

-9 .030 x 3/4 = 17 AL. ALLOY STRIP (24ST) SPEC. 67A10 CONT. H.T. NONE

77°
11 3/4 R. REF.
-4 25401 PLAIN ANGLE 3/4 x 3/4 x 1/16 SPEC. 44A9-A H.T. BR 55 CONST
SECT. E-E
12" = 1'-0"

Q4305-D4 ON ASSEM.
AN442-D6
288 1102
288 1098 REF.
SECT. D-D
6" = 1'-0"

GREEN PRIME
CODE
A ANODIC TREATMENT
P PAINTING
AP A-P COMBINATION
C CADMIUM PLATING

20-SAHN	288 1090	/	-7
PBY-5A	288 1090	/	-6
20-SAHC	288 1090	/	-5
PBY-5A	288 1090	/	-4
20-SAHN	288 1090	/	288 1134-2
20-SAHE	288 1090	/	AN935-10
20-SAHC	288 1090	/	AN3-7A
20-SAHA	288 1090	/	AN442-D4
PBY-5	288 1090	/	AC615-06-6
PBY-4	288 1090	/	AN455-D8
PBY-3	288 1090	/	AN361-D6
PBY-2	288 1090	/	AN442-D6
PBY-1	288 1090	/	AC615-D6

FINISH — -2, -3, -4, -5, -6, -7
2-P-A8 ON PBY-1
2-P-A8 ON PBY-2 FUTURE
GP

RIVETS MARKED ● ARE AN455-D6
RIVETS MARKED ⊗ ARE AN455-D4

PARTS LIST PER ASSY													
QUAN.	MODEL	NEXT ASSY.	REQ.	PARTS									
				1	2	3	4	5	6	7	8	9	10
20-SAHN	288 1090	/		-7									
PBY-5A	288 1090	/		-6									
20-SAHC	288 1090	/		-5									
PBY-5A	288 1090	/		-4									
20-SAHN	288 1090	/		288 1134-2	1	1	1	1	1	1	1	1	1
20-SAHE	288 1090	/		AN935-10	2	2	2	2	2	2	2	2	2
20-SAHC	288 1090	/		AN3-7A	2	2	2	2	2	2	2	2	2
20-SAHA	288 1090	/		AN442-D4									
PBY-5	288 1090	/	22	AC615-06-6	22	22	22	22	22	22	22	22	22
PBY-4	288 1090	/		AN455-D8									
PBY-3	288 1090	/		AN361-D6									
PBY-2	288 1090	/		AN442-D6									
PBY-1	288 1090	/		AC615-D6									

REPLACED 288 1124 DTD 5-30-41
REPLACED BY
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/64
SCALE 6" = 1'-0"
X AD. LUNDQUIST 5-28-41 DATE
288 CLASS ACFT. SET
AC NAVY NOTED MATERIAL
NOTED STEEL | NOTED HEAT TREAT | NOTED FINISH
CONSOLIDATED AIRCRAFT CORP. CORPUS CHRISTI, TEXAS
STAMP PT. NO. WHERE SHOWN
NAME TRACK INSTALLATION HULL-BOW GUN
DWG NO. J 288 1124
DRAFT | CHECK | STRESS | ENG.

H 84

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
N	TRACED UP TO DATE	6-18-37	[illegible]
Q	DOUBLE -32 AN JOGGLE ANGLES -48 & -49	10-28-38	[illegible]
	-66 & ANGLE -115 (-28) ADD -60	"	"
	FILLER -69 & FILLER 70 (-58 ADD)	"	"
P	ADD RIVET QUIT 4 & 7 TO -7, CHANGE QUIT	2-2-38	[illegible]
	STANDING LEG OF -382-43 SHEET FOR	"	"
	PBY-5 & PB2Y-3	"	"
Q	MATL OF -7-37-10 WAS CHGD TO AN C32	11-1-38	[illegible]
R	PAR 1012-6 WAS 3AD H13	2-2-39	[illegible]
S	ADDED -71 & -72 PER ECN 1-5	4-27-39	[illegible]
	DELETED -5		
T	MATL OF -21, -22 WAS K1550 E4 ST	11-16-40	[illegible]

E.O. 17015, ALL

A	4	A
0	1/8	
2	1/4	
4	1/8	
6	1	
8	1/2	
10	0	
12		3/8
14		1/8
16		2
18		2
20	0	
22	2	
24	6	
26	9	
30	14 1/8	

NOTE
PLACE STIFFENERS 46, 48, RADIALLY FROM CENTER OF CURVATURE

NOTE
RIVETS IN TOP & BOTTOM EDGING ANGLES EQUALLY SPACED BETWEEN WEB STIFF AS SHOWN
RIVETS IN VERTICAL & DIAGONAL WEB STIFF EQUALLY SPACED AS SHOWN WITH END RIVETS 1/8 FROM EDGING ANGLES
TRIM OUTSTANDING LEG OF WEB STIFF 30° EXCEPT -36 & 46 AS SHOWN IN SECTION E-E DWG 288M45
SEE DWG 288M45 FOR SECTION P-P

NOTE
ALL RIVETS TO BE AN426-DS UNLESS OTHERWISE NOTED
DRILL 7/32 FOR AN426-DE RIVET
DRILL 9/32 FOR AN426-DS RIVET

NOTE
LIST CONSIST OF ANGLES (PLAIN, EXTRUDED & BULB WITH CORRESPONDING DASH NUMBERS.
ALL EXTRUSIONS SPEC 46A9 CONDT 2437 (EXCEPT AS NOTED OTHERWISE)
3/8 x 9/16 x 1/16 EXTR. BULB ANGLE: DIE "H-1559 -3, -4, -5, -6 &
1 1/16 x 3/16 EXTR. BULB ANGLE DIE "H-1295 -7, -8, -9, -10, (SPEC 46A9 COND A) OR H.T. 3853
3/8 x 3/8 x 1/16 EXTR. ANGLE DIE "H-3801 -13, -14, -7, -10, -41, -44, -47, -64, -65, -66 (ALSO H.T. 3853 SPEC 46A9 COND A)
1 3/8 x 1/2 x 1/20 EXTR. ANGLE DIE "1298 -83, -84, -85, -86
1 1/16 x 1/2 x 1/20 INLET ANGLE DIE "H-1425 -13, -14, -7 SPEC 47A10 COND A H.T. 3853
9/16 x 3/8 x .040 EXTR. ANGLE DIE "H-1280 -26, -27, -36, -37, -38, -39, -40, -48, -49, -50, -51, -52, -53, -57, -58, -61, -62, -63, -67, -68.
9/16 x 1 1/2 x .080 EXTR. ANGLE DIE "H-1903 -28, -29, -30, -31, -34, -35, -36, -59, -60, -66, -67.

FINISH:
2-P-EMER ON PBY-1
2-P-EMER ON PBY-2 & FUTURE

-21, -22: 1 1/2 x 1 1/2 x .080 EXTR. BULB ANGLE DIE H-1550 SPEC 46A9 24-30 COND A H.T. 52-58

| | | |

LET.	ALTERATION	DATE	BY
K	TRACED UP TO RATE	8-11-43	
L	-24 & -27 ADDED ON WING & FUSE	8-29-43	
M	TOGGLE -EE-3 .040 MOD -27A	3-3-44	
	-40 & 41 ADDED -42 & -43		
	CHANGE SEE #3 PRINT SHT TO READ		
N	ADD NOTE OMITTING A RIVETS 1-30-44		
	ADD NOTE OMITTING 7 RIVETS PORT		
O	2-3-45 THAT WAS ADDED AGAIN (CONF.)	11-3-44	
P	CUT -12 & -13 30° ARCH @ E	11-8-44	
	APPROVED - EA	9-18-44	
Q	NOTE AN442DS & AN442DG	1-10-45	
R	CHANGE - REAR & - 69 A/C	"	"
S	ON PAGE OF DWG. ADDED S-D REPLACED NOTE		
	THE FOLLOWING PARTS TO BE 5/32 I.D. &		
	EXT. ANGLE DIE "K9876 -16,-19,-24,-31,-34,		
	-36,-37,-39,-40 "WITH" 10-667-10 DIE "D		
	ADDED -66, REPLACED "36,-37,-40 EXT.		
	ANGLE DIE "K6240 -16,-19,-20,-23,-24,-31,		
	-33,-34,-35,-36,-39,-41,-42,-43,-44,-45,		
	-46,-49,-50,-51,-52,-53,-54,-55,-56 WITH		
	T-2-A637 -10 DIE "K6240 -61," DIE "K9876,		
	5/32 I.D. 0.040 EXT. ANGLE DIE "K1859		
	-3,-5,-13,-18 REMOVED -16,-19 & ADDED -5,-6		
	-55, REPLACED "36 WITH 5/32 I.D. EXT. ANGLE		
	DIE "K5401 - 9,-10,-11,-46,-47,-48,-49,-64		
	WITH T-2-A287 -8,-10,-11,-46,-47,-48,-49		
	-64 & -65. BOMBS NOTE "THE FOLLOWING PARTS		
	TO BE "48-107,-111,-115," SHOT ONE PLANE.		
	BLOCK TO SAYS "EXPT. 1-25"	4-16-45	
T	TO NOTE "THE FOLLOWING PART TO BE		
	Y-5 A97 ADDED OR K9876, TO NOTE "THE		
	FOLLOWING PART TO BE Y-2-A287 ADDED OR		
	K5240 TO NOTE "THE FOLLOWING PART		
	TO BE Y-2 A287 ADDED OR K5401 TO		
	NOTE "THE FOLLOWING PART TO BE		
	Y-5 A97 ALHED OR K1859 NOTE		
	"ALL AL ALLOY EXTRUSIONS SPEC. 4140		
	24 ST COND T EXCEPT AS NOTED" RE-		
	PLACED BY "ALL AL ALLOY EXTRUSIONS		
	SPEC. QQA 354-T EXCEPT AS NOTED"		
	NO WK CHG.	10-8-45	

17184
27727

PORT SIDE - LOOKING FWD

AN442DS

AN442DG

44⅛ TO ℄ BELTFRAME

57⅛ E.

30

AN442-DS

SEE VIEW P-P DWG. 28B1425

30R.

2 EQUAL SPACES

3 EQUAL SPACES

REAR

FRONT

L.H. R.H.

FRONT

REAR

2DGM76 2DGM76

L.H. FORWARD SIDE ONLY

R.H.

FRONT

REAR

L.H. R.H.

L.H. R.H.

L.H. R.H.

INCORPORATES
PBY-1 SU. AER. CHG. 8131
PBY-2 " " 991

LET	ALTERATIONS	DATE	BY
C	TO AGREE WITH PB AIRPLANE	7-24-41	JFR
L	THREAD AND LOCATION REVISED PER C.O. 7896A	10-28-41	
M	ADDED METAL "K"	2-2-42	JFR
N	ADDED ANGLE L-L REVISING P-2 TRIM AT -18 FOR PBY-2	2-2-42	
P	STANDARD BOLT SECTIONS -5 & 7 TO AGREE WITH AN DRG	10-29-42	
Q	ADDED NOTE & ITS REFERENCE	2-11-43	
R	ADDED -18 & NOTES		
S	MADE COVER A WAS BOLT (COND 'T')		
T	MADE B (COND.) WAS 44.37 (COND T)		
U	REVISED -18 TRIM & ADDED NOTE		
V	CHANGED NOTE & ITS REFERENCE TO STAMPED ON		
	ADDED NOTE & ITS REFERENCE		
	AF-14 TO DELETE ANGLE	7-7-43	
E.O. A37295	V (1% MS) 1% 1% MS) 1% 60 PT Con.	9-17-43	
E.O. A95203	TO-0 ASSY ADDED ITEMS 9 TO -10	9-0-43	

FIN & RUDDER

DRILL 1⅛ DIA THRU WEB -11 (REAR)

DRILL ⅝ DIA 3 HOLES THRU WEB -11 (REAR)

RUDDER HINGE

FOR RUDDER LOCK CONTROL INSTALLATIONS ONLY

DETAIL K

SCALE 12" = 1'-0"

(M)

DIMENSIONS "Z"
PBY-1 5⅞"
PBY-2 & FUTURE 6⅜"

(L) (U)

50⅞ 45 IN 39⅝ IN 38⅝ IN 15⅞ 19 45/64

DRILL ⅝ THRU

SEE DETAIL K

-18

-2

-5

-3

-4

-7

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-11

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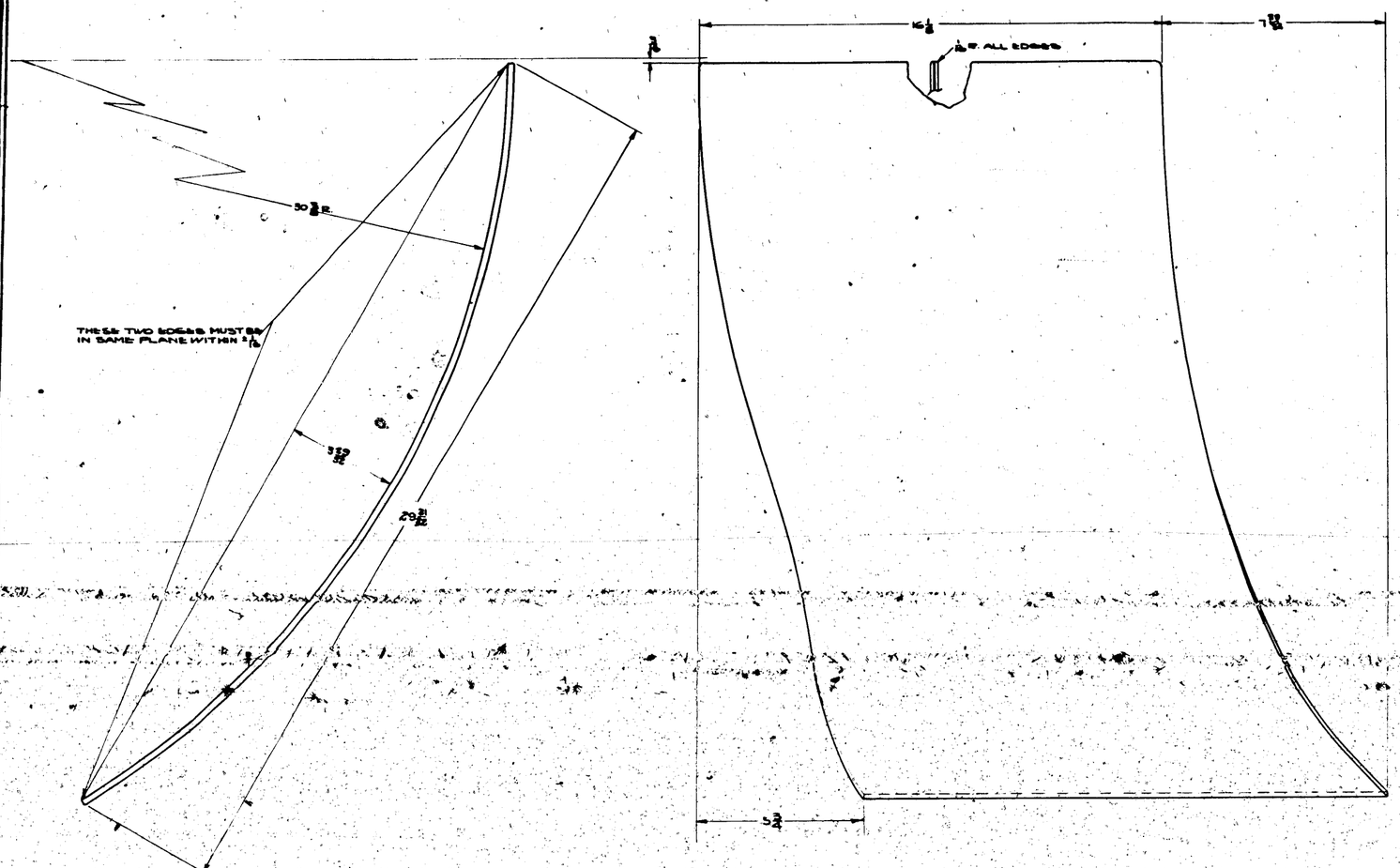
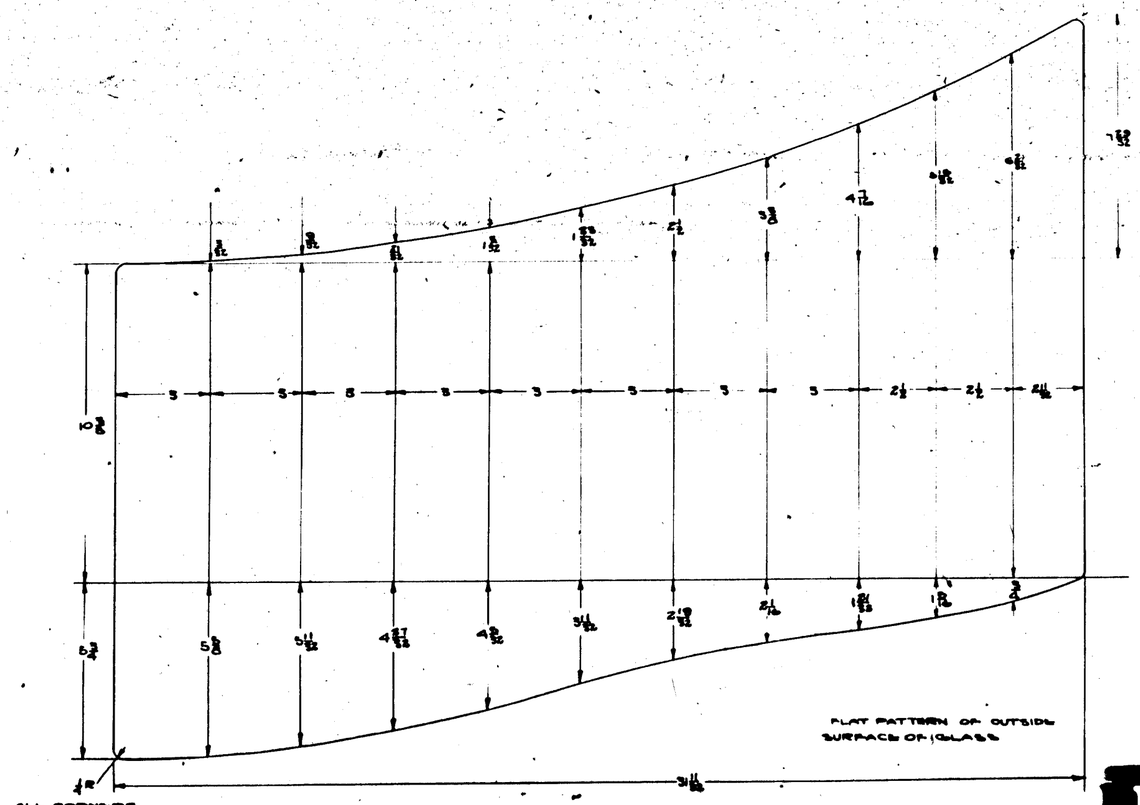
-49

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
B	TRACED	1-18-38	[redacted]
C	ADDED NOTES	2-2-38	[redacted]





LIMITS ON DIMENSIONS :-
-3/32 ON LENGTH & WIDTH
±1/8 ON BENDS
-1/16 ON THICKNESS
±1/8 ON THICKNESS

BONDING MATERIAL TO BE VINYL RESIN BINDER ("NITEST" OR EQUIV.)

THIS GLASS INTERCHANGEABLE WITH 2881281 ON 2-1-38

2881281 LH SHOWN
2881281-1 RH OPP

-R	PBY-5A	2882048	1
-L	PBY-5A	2882049	1
-1	PBY-3	2882064	
	PBY-3	2882081	
-1	PBY-2	2882062	
	PBY-2	2882063	
-1	PBY-4	2882084	
	PBY-4	2882083	
-1	PBY-1	2882079	
	PBY-1	2882064	

REPLACES 2881257 ON PBY-3A
DISPLACED BY
LIGHT ON DRAWING UNLESS OTHERWISE DESIGNATED

APPROVED 1-18-38 DATE
CALC. BY | ACT. BY
SCALE 6" = 1'-0"
AC
NAVY & LANGLEY SCALE
MATERIAL

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
(IF MAP PT. NO. SHOWN SHOWN)

O.N.	MODEL	NEXT ASSY.	REQ.	STD PARTS	LH REQ.	RH REQ.	PART NO.	LH	RH
REQUIREMENTS PER AIRPLANE					MAT.		PARTS LIST PER ASSY.		
SPEC.		HEAT TREAT		FINISH			DRAWN	DATE	
							BRKT	CHK'D	ITAB	ENG.

NAME GLASS-HULL-PILOTS ENCLOSURE WIND SHIELD

DWG. NUMBER 2881281-1
J 2881257

H 88

LET	ALTERATION	DATE	BY
B	TRACED	6-15-39	
C	ADDED AN365-616 & AN315-616	1-11-41	
D	CHANGED ONE ROW OF RIVETS	6-4-41	
	THRU 28B1306 FROM 2B4B-36		
	TO AN426-D6		
E	CHANGED STEEL ANCHOR NUTS	5-29-42	COLWELL
	AC366-F1032 TO AL ALLOY		
	ANCHOR NUTS AC366-DR1032		
E1	REMOVED NOTE - OLD HEAD		
	THE REAR END "CH" RAD. TRAVEL		
	WITH AN 315-C RIVETS ON HEAD		
	ALL HOLES IN ROLLING & MOVABLE		
	ARMS TO BE DRILLED & REAMED		
	ORC AE 6478 6488	8-20-42	LEWIS
F	BU 2B-2410 WAS BU 2B-2470		
	ADDED RIVETS	2ND	
N	AN426-3D6 WAS AN426-3D6	8-6-47	
J	AN3-6A WAS AN3-6A, AN960		
	3/16" WIDE WAS AN960-2-2 1/2		
	CHANGED TO AC965-F1032-6 WASH		
	ADDED		
	AC365-5-1032 (5) REV. CHG. MEC.	11/6/47	
K	ADDED Q7110B-81.00		

E.O. 11553 & 11A

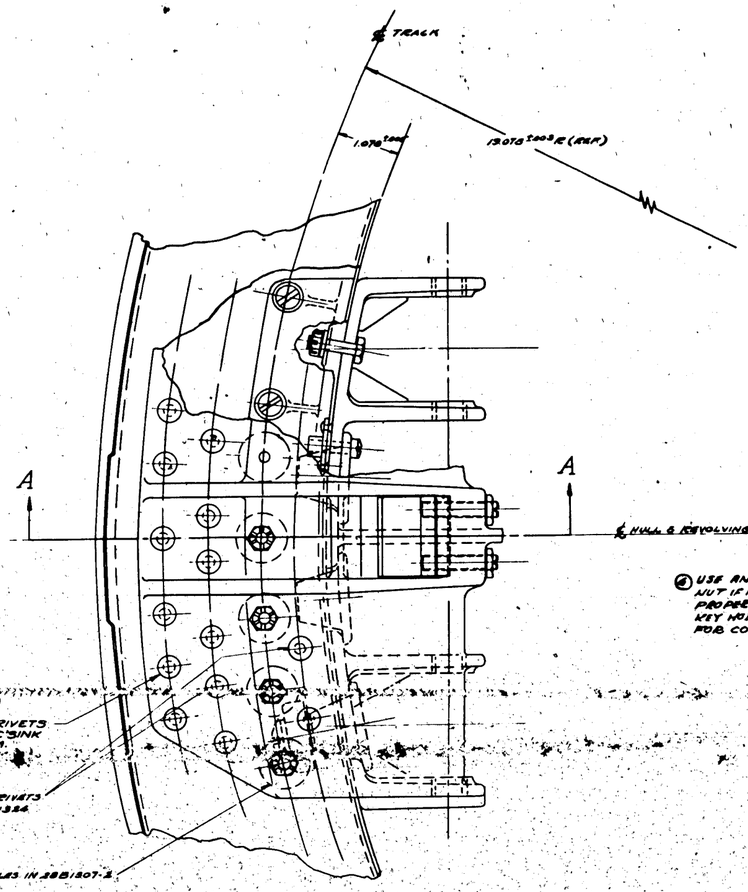
C.O. 7477

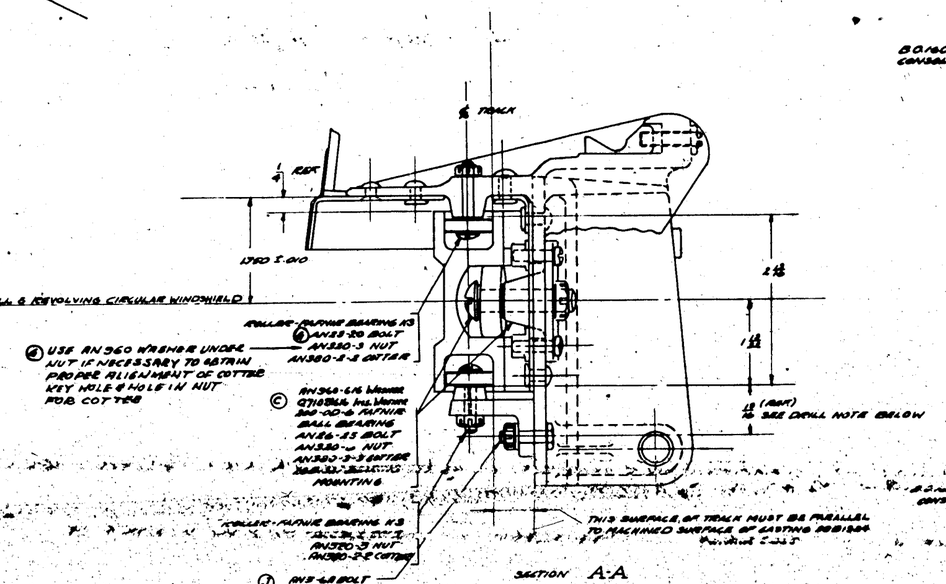
CO W&A EO 21782

P&WB 668

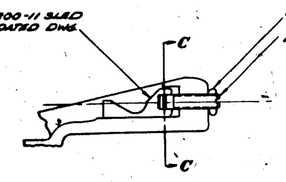
P&WB

E.O. 11553 & 11A

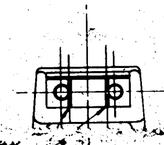




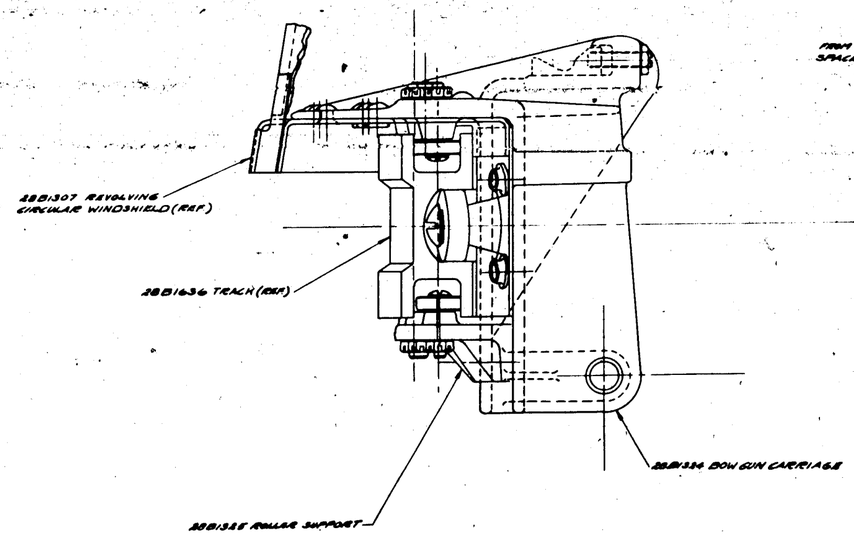
SECTION A-A

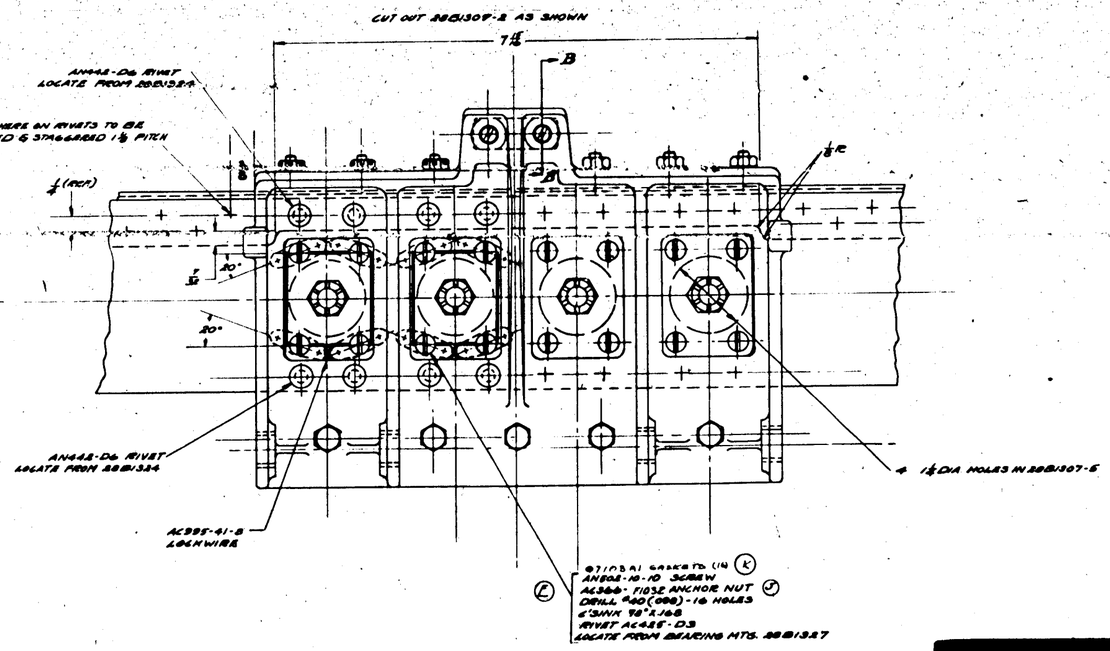


SECTION B-B



SECTION C-C





NOTE: LOCATE REVOLVING CIRCULAR WINDSHIELD 28B1307 IN RELATION TO TRACK 28B1636 BY MEANS OF THIS INSTALLATION. SEE CORRESPONDING NOTE ON DWG. 28B1307.

CARE SHOULD BE EXERCISED IN DRIVING RIVETS THRU CASTING TO PREVENT WARPING.

H 89

AN426-3D6					
AN426-D6					7
AN960-616					9
AC366-41-8					4
AN960-10					2
AN814-4-10					10
AN426-D6					88
AC 425-D3					46
AN380-3-3					3
AN380-2-4					10
AC366-1032					42
AN 186-4					2
AN320-6					2
AN320-3					8
AN 23-36					4
AN23-20					7
AN23-10					2
AN3-6A					5
Q7110B					14
160800-81					14
160800-11					1
160800-10					4
Q7110B-61					14
REMK K-5-A					
REV. 380-3D-2-3					
28B1307					1
28B1307					1
28B1307					1
28B1307					1
28B1324					1
PART					
REQ.					
NEXT ASSY					
MODEL					
O.N.					

REPLACES			
REPLACED BY			
LIMIT OF DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/64	APPROVED	DATE	
	3 7/8 CALC WT.	NET WT.	
	SCALE 12" = 1'-0"		
	REQUIREMENTS PER AIRPLANE		MAT.
	NAVY NoTAD	NONE	NONE
	MATERIAL	SPEC.	HEAT TREAT
	CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.	NAME	CARRIAGE INSTALLATION - BOW GUN - REVOLV. CIRC. WINDSH.
	STAMP PT. No. WHERE SHOWN		NoTAD
			FINISH
			DRAFT
			CHECK
			ENG.
			DWG NUMBER 28B1322
			PARTS LIST PER ASSY.
			SHEET
			ASSEMBLY
			DETAIL
			2-17-42
			8-6-47

S.D. NO.	LET.	ALTERATION	DATE	BY	CHKD
	D	TRACED.	AUG 31	R.H.	
	E	ADDED PBY-5 REQUIREMENTS, SECTION A-A PER A.S.B. PBY-4 ORD	7-1-38		
"B1&B"	F	1/16 DIA. OIL HOLES CHANGED TO 1/8 DIA. DRILLED CSK. ALL SIDES.	7/14/38		
"B" TO JRB	G	MIN. DIM. 1/4 & 1/16 ADDED.	7/14/38		
"B1&B" TO "B" JRB	H	MIN. DIA. 1/4 & 1/16 HERE 12/7/38	12/7/38		
"B" TO B1&B	J	1 5/8 DIA. CHGD. INTO A 2 1/4 DIA. 1 1/4 R. MAX. 1 3/8 R. 1 MAX. 3/16 R.	1/24/39		
	K	3/4 MIN. 3/16, 1/4 MIN. 1/16 3 PLACES, ADDED 3/32 R. 3/16 3 PLACES. RE-MOVED 13/16 (CHANGED PICTURE) REMOVED 7/16 R. CHG'D. PICTURE. SEE SPLIT F-F TO MATCH CASTING AT SECT. H-H ADDED 3/16 R. (1/4 R. 6 PLACES (REMOVED HOLE THRU FILLETS SUCH THAT MINIMUM-NESS AS INDICATED BY ARROW SHALL BE 3/16" CHG'D. PICTURE AT SECTION K-K TO SUIT TANG-ENT. ALSO AT SECT. A-A & SECT. VIEW JJ CHG'D. REMOVED 1/16 MIN. WALL THICKNESS.	2/24/39		
A36103	L	ADDED 3/8 MIN. (R) REVISED REQUIREMENTS BLOCK.	4/24/39		

J

SPOTFACE

SEE DETAIL 'A' FOR PBY-4

PBY-1 PBY-2 PBY-3

LINE REAM 5/8 GAGE -12 -17 BUSHING PRESS FIT INSERT WITH WET PRIMER

SECTION A-A

SEE DETAIL 'B' FOR PBY-4

SECTION B-B

LINE REAM 5/8 GAGE -12 -14 BUSHING PRESS FIT - INSERT WITH WET PRIMER

SEE DETAIL 'A' FOR PBY-4

LINE DRILL #10 (.193) 2 HOLES

SECTION D-D

NOTE THIS END MUST BE FILED TO GIVE CLEARANCE ON 3/16 RADIUS AROUND HOLE AS SHOWN

SEE DETAILS 'A' & 'B'

AL ALLOY CSTG ALCOA #195-T6 SPEC 4681 CL-A MIL AN-A-8 "C" FINISH-F-P-AP

VIEW C-C

DRILL 3/32 DIA. HOLES THRU ONE SIDE OF CSTG & BUSHING C'SINK 82° x 9/32 DIA. DEEP 5 PLACES

LINE REAM 5/8 GAGE -20 -17 BUSHINGS PRESS FIT INSERT WITH WET PRIMER

NOTE:-
28B1329-2 & 28B1329-4 ARE MADE FROM 28B1329 ROUGH CASTING.

SLOW CHILLING INDICATED IN ORDER TO RETAIN PROPER RELATION OF LUGS

VIEW E-E

SECTION F-F

SECTION H-H

SECTION G-G

DRILL 4.32 (.139) THRU 10-32 NF-3

LINE REAM 7/16 FOR SECTION A-A: GAGE-20-17 BUSHING FOR SECTION D-D: GAGE-20-16 BUSHING INSERT BUSHINGS WITH WET PRIMER PBY-4 ONLY

PRESS FIT

DRILL OIL HOLES 3/32 C'SK 82° x 5/32 DIAM.

DETAIL A PBY-4 ONLY

28B1329 ROUGH CASTING

LINE REAM 7/16 GAGE-20-17 BUSHING PRESS FIT INSERT WITH WET PRIMER

DRILL OIL HOLE 3/32 C'SK 82° x 5/32 DIAM.

DETAIL B PBY-4 ONLY

FINISH CODE	
Z	ANODIC TREATMENT
P	P-77 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

H 90

-5	28-5 MK	28F4054													
-5	28-5 MAC	28F4054													
-5	28-5 MC	28F4054													
-5	28-5 MH	28F4054													
-5	28-5 MA	28F4054													
-5	28-5 MA	28F4054													
-3	PBY-5A	28F4834	1												
-3	PBY-5B	28F4834	1												
-5	PBY-5 "28F4054"														
-3	PBY-4	28F4834													
	PBY-3	28B1329													
	PBY-2	28B1329													
	PBY-1	28B1329													

O.N.	MODEL	NEXT ASSY.	REQ.	PART NO.	NAME
REQUIREMENTS PER AIRPLANE			MAT.		HT. PER A.I.
ADVISED	ADVISED	ADVISED			
SPEC.	HEAT TREAT		FINISH		

REPLACED
REPLACED BY
1 UNIT ON SHIPMENTS ON P.O. #
1 SPECIFICATION #

F.A.No. A-38-39
APPROVED DATE
SCALE 1 1/2" = 1"
WEIGHT

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.

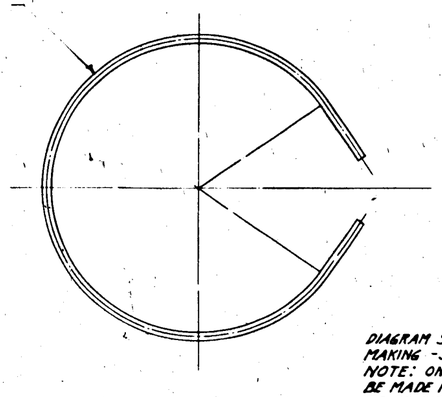
STIRRUP — BOW GUN MOUNT

DWG. NO. J 28B1329

28B1329 R

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
C	TRACED	1-28-37	

DIAGRAM SHOWING METHOD OF MAKING HOOP FOR -2 BASED UPON 113" OF ORDERED STOCK LENGTH.



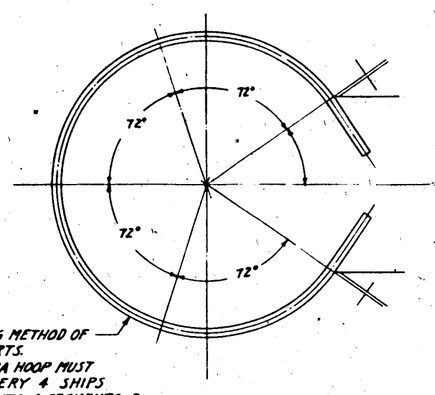
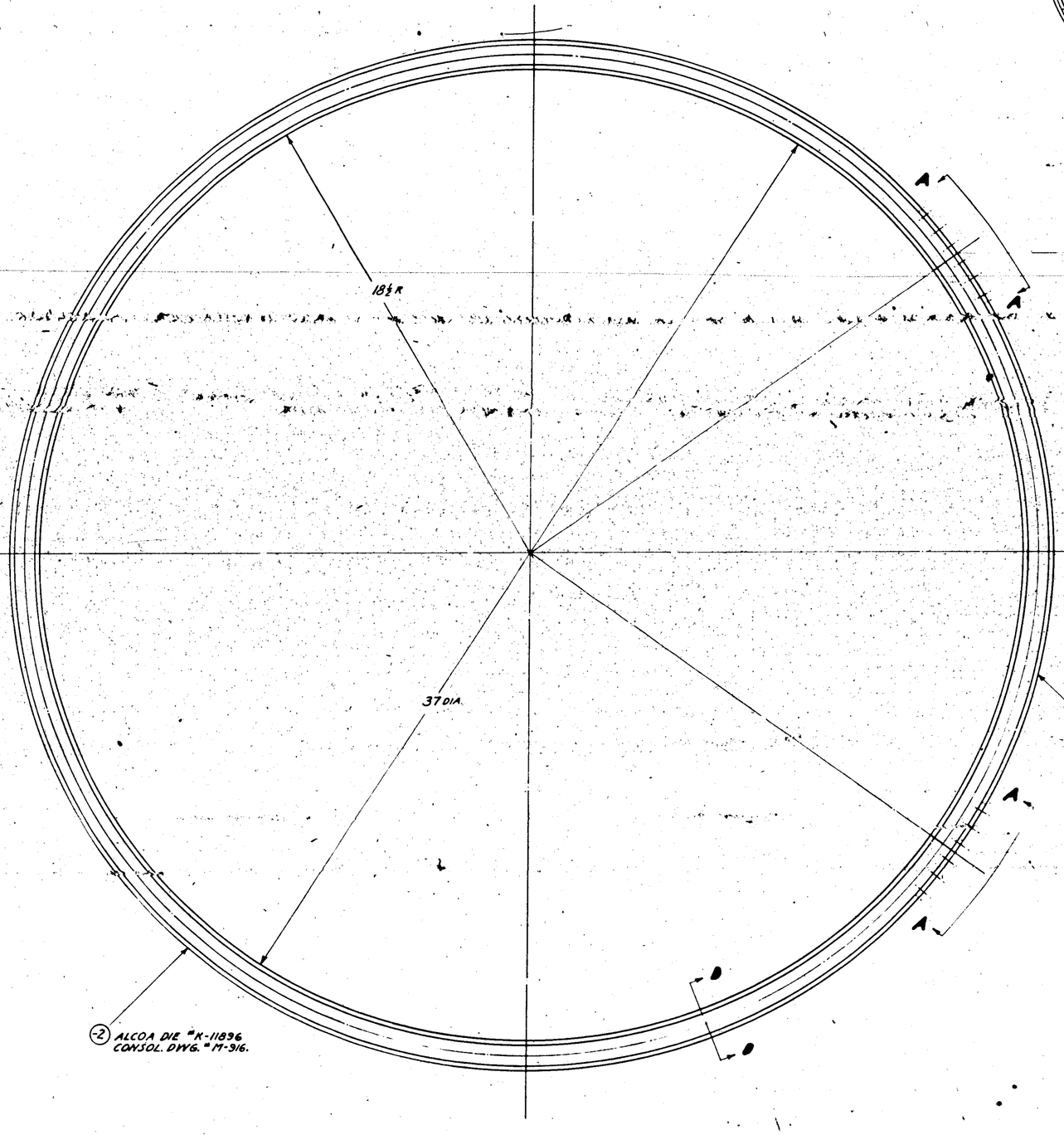
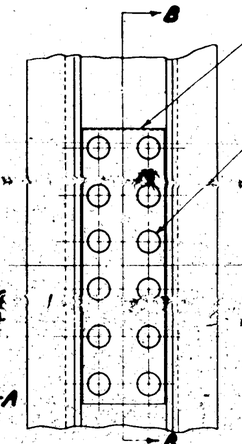


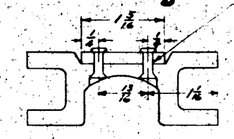
DIAGRAM SHOWING METHOD OF MAKING -3 INSERTS.
NOTE: ONE EXTRA HOOP MUST BE MADE FOR EVERY 4 SHIPS TO BE CUT UP INTO 4 SEGMENTS -3.



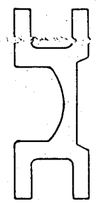


SECTION A-A
FULL SIZE

SECTION B-B
FULL SIZE



SECTION C-C
FULL SIZE



SECTION D-D
FULL SIZE

NOTE:
IT IS ESSENTIAL TO HOLD THE DIAM. AND THE CIRCLE OF THE TRACK TO AS CLOSE LIMITS AS IT IS POSSIBLE TO OBTAIN IN ORDER TO PERMIT FREE OPERATION OF TURRET ON THE TRACK.

TRY ASSY	28B3036	1	
-4	PB21Y-3	28B1161	2
-3	PB21Y-3	28B1161	1
-2	PB21Y-3	28B1161	1
-4	BEND Stock	28B1161	2
-3	BEND Stock	28B1161	1
-2	BEND Stock	28B1161	1
-4	X24-1.04	28B0649	2
-3	X24-1.04	28B0648	1
-2	X24-1.04	28B0647	1
	PBY-4	28B3034	
	PBY-3	28B3035	
	PBY-2	28B1436	
	PBY-1	28B1436	

		-4	2	2
		-3	1	1
28B1436	2	1	1	
AC425-D5	4	2	2	

REPLACES 28B1838 of 7-18-36
REPLACED BY
LIMIT OR DIMENSIONS UNLESS OTHERWISE SPECIFIED ± .010
SCALE 1/2 FULL SIZE
AC
NAVY AK ALLOY EXT.
MATERIAL
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.
STAMP PT. No. WHERE SHOWN

APPROVED [illegible] 1-28-37
DATE
REV
CALC WT. ACT WT.
O.H. MODEL NEXT ASSY. REQ
REQUIREMENTS PER AIRPLANE
MAT.
PARTS LIST PER ASSY.
ALCAD 24ST 3 1/2 HARD
SPEC. 3 RS3-CONDT
HEAT TREAT NONE
FINISH
DRAFT CHECK ENG.
NAME TRACK-HULL-BOW GUN
DRAWING NO. J 28B1398

[redacted]

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
S	"I" PLANES UP TO C. 91876 REQ. (2) OF -3 & ETC" IN 4TH ADDED OF -16 (I); -17 (I) & -18 (I). NO WT CHGE.	7-21-41	[illegible]
T	CREATED -15 PER SERVICE A/L -12 WAS EXCEPT OMITTED & ADDITIONAL HOLE IN NOTES FOR PBY-5" WAS "PLANES C.91876 ("90 TO 100) REQ. (10) OF -15, (1) OF -16, (2) OF -17 (10) OF -18, ADDED NOTE "PLANES NC.R(A)10) & ON ..... ETC" IN 3RD ADDED -19 (I). NO. CHGE NEC.	7-21-41	[illegible]

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
R	"I" PLANES UP TO C. 91876 REQ. (2) OF -3 & ETC" IN 4TH ADDED OF -16 (I); -17 (I) & -18 (I). NO WT CHGE.	7-21-41	[illegible]
T	CREATED -15 PER SERVICE A/L -12 WAS EXCEPT OMITTED & ADDITIONAL HOLE IN NOTES FOR PBY-5" WAS "PLANES C.91876 ("90 TO 100) REQ. (10) OF -15, (1) OF -16, (2) OF -17 (10) OF -18, ADDED NOTE "PLANES NC.R(A)10) & ON ..... ETC" IN 3RD ADDED -19 (I). NO. CHGE NEC.	7-21-41	[illegible]

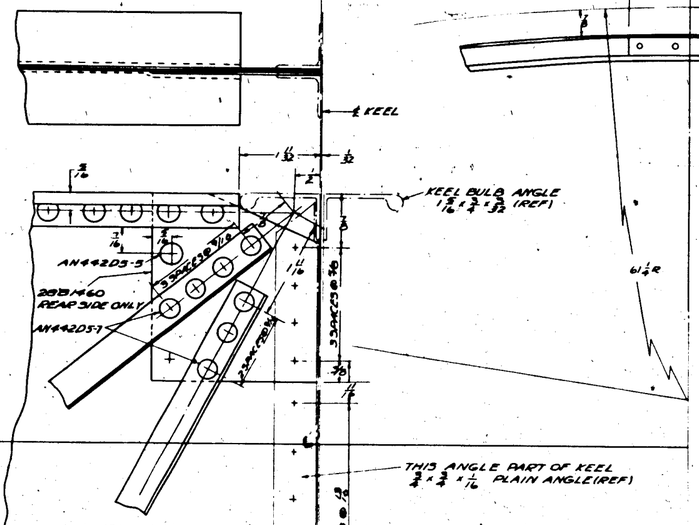
SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
R	"I" PLANES UP TO C. 91876 REQ. (2) OF -3 & ETC" IN 4TH ADDED OF -16 (I); -17 (I) & -18 (I). NO WT CHGE.	7-21-41	[illegible]
T	CREATED -15 PER SERVICE A/L -12 WAS EXCEPT OMITTED & ADDITIONAL HOLE IN NOTES FOR PBY-5" WAS "PLANES C.91876 ("90 TO 100) REQ. (10) OF -15, (1) OF -16, (2) OF -17 (10) OF -18, ADDED NOTE "PLANES NC.R(A)10) & ON ..... ETC" IN 3RD ADDED -19 (I). NO. CHGE NEC.	7-21-41	[illegible]
S	CREATED -15 WAS SAME AS -3 WEB & -16 WEB SAME AS -4 WEB EXCEPT FOR SLOT FOR HOLE AT FOR NOTE "HOLE IN FOR ..... ETC" WAS "PLANES ALSO FOR CONTROLLERON TOP CONTROLLERON RIGHT SIDE ONLY") CREATED -17 WEB SAME AS -3 WEB & -16 WEB SAME AS -4 WEB EXCEPT ADDED SLOTTED HOLE DIM 3.70, 1.69, IN R & IN. FOR -17 ONLY ADDED (2) 7/16 DIA HOLES, DIM'S 6.73 & 2.35 IN "NOTES FOR PBY-5" NOTE 8) "PLANES NO.(S) 469 ..... ETC" WAS "PLANES NO.(S) 469 & (2) REQ. (2) OF -3 ADDED "NOTES FOR PBY-5" "NOTE	[illegible]	[illegible]

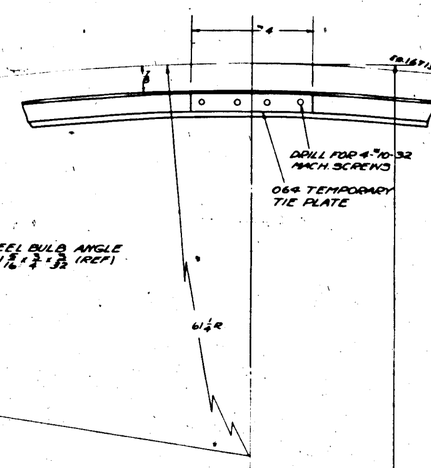
SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
Q	THIS HOLE FOR ALTIMETER CABLE INSTALL. SEE 2BF6955 (REF)" ADDED IN 3RD ADDED NOTE "1 1/2 DIA HOLE FOR -12 & -16" WAS "7/8 DIA HOLE FOR -12 & -16" IN 3RD ADDED HOLE (2) IN -10 & -11" WAS "7/8 DIA (C-E) HOLES (3) IN -10, -11 & -12" WAS "1 1/16 DIA (C-F) HOLES (2) IN -11 & -12" WAS "1 1/16 DIA (C-G) HOLE IN -10 & -12" WAS "1 1/16 DIA (C-H) FOR -16, DIM'S 5 3/16 & 1 7/8" WAS "1 1/16 DIA (C-J) FOR -16, DIM'S 5 3/16 & 1 7/8" WAS "1 1/16 DIA (C-K) NOTE "2" "PLANES MCR 220-18 ..... ETC" IN 3RD ADDED NOTE "3" "PLANES MCR 220-18 ..... ETC" IN 3RD ADDED NOTE "4" "PLANES MCR 220-18 ..... ETC" IN 3RD ADDED NOTE "5" "PLANES MCR 220-18 ..... ETC" IN 3RD ADDED NOTE

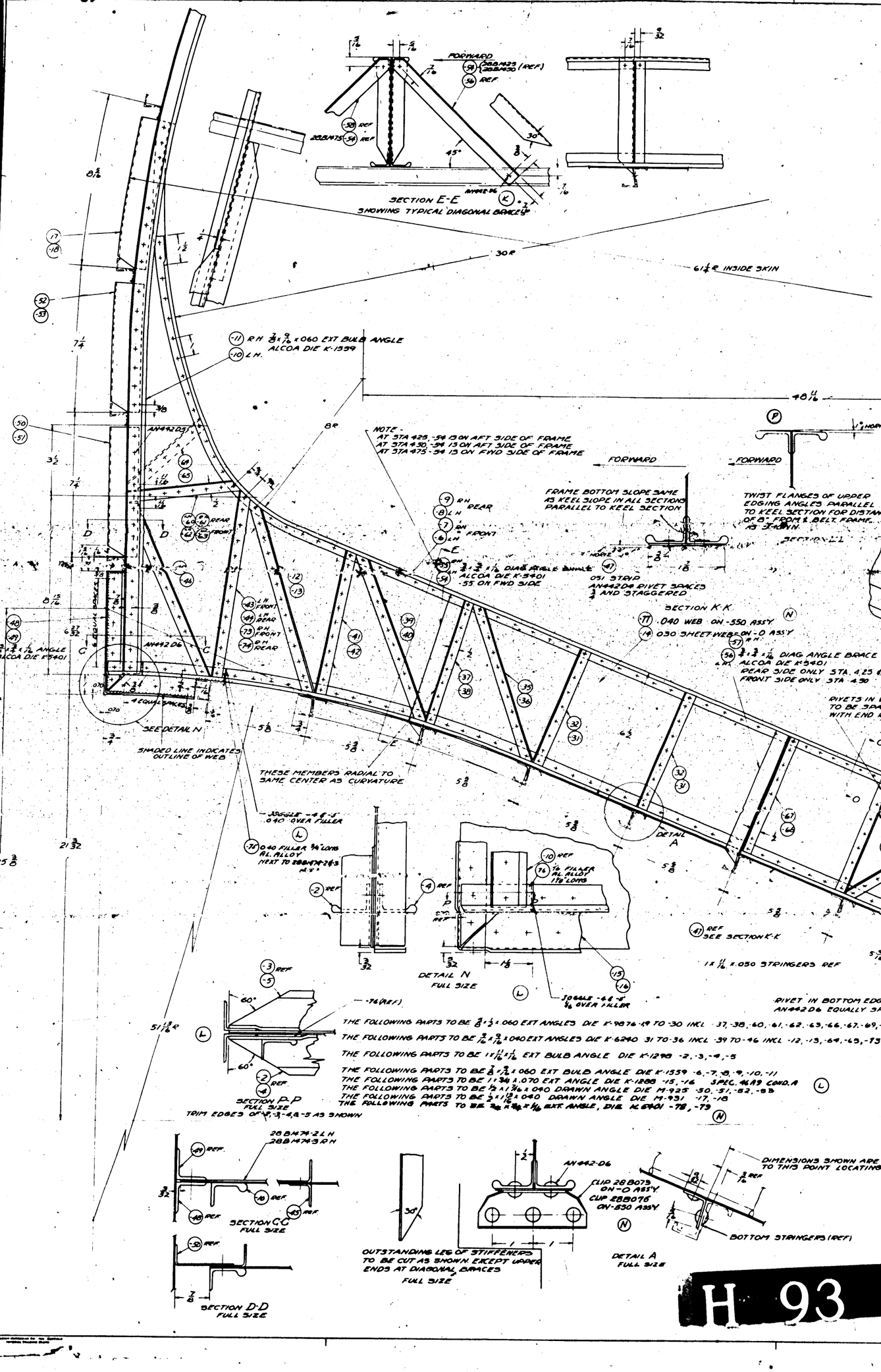
SUPPLIES & EQUIPMENT CLASSIFICATION		
LET	ALTERATION	DATE BY
V	TRACED UP TO DATE	9-24-37 WHD

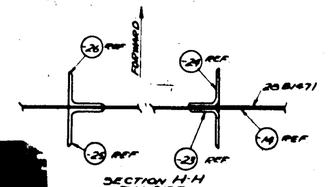
C.O. 8806

K	AN442-D6 TO AN442-D8	11-17-37 CDM
L	CHGD -41 & -54 TO 2.0 DIA. FROM 2.25"	12-30
	ADDED - 15.5 INCH FAILED & ADD	
	-74 & -76 FILLER, QTY. 28 INDEX 2	
M	ADDED -47 & STRIKE FROM SHEET ASSY	1-24-38
N	ADDED -550 ASSY & PARTS REQD 11-17-37	
	ADDED -77 -78 -79 & REBOLTS	
	CHANGE -14, -24, -34 & REBOLTS	
	REQUIRED TO 0.0 (-550)	4-8-38 VLC
	CHG'D -42 & -52 (2), ADDED -80 (2)	
	ADDED -81 (2), CHANGED -80 (2)	
	FIELD OF DRAW.	









H 93

FOR TABLE OF BULKHEAD ANGLES SEE 288D36

FOR AN442D6 RIVETS USE 3/16 DIA DRILL

FOR AN442D5 - RIVETS USE 1/8 DIA DRILL
FOR AN442 OR RIVETS USE NO DIA. DRILL

VIEW LOOKING FORWARD - POST SIDE SHOWN.

FINISH:
Z-P - PAINT ON PBY-1
Z-P - NO PAINT ON PBY-2 & FUTURE

FINISH CODE
Z ANODIC TREATMENT
P P.11 PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE

6P - BLACK ENAMEL

ALL AL ALLOY SHEET 24-37 SPEC 7-24-40 (COND T) EXCEPT AS NOTED.
ALL AL ALLOY EXTRUSIONS SPEC 9-49 (COND T) ALLOY 24-T EXCEPT AS NOTED.
HEAT TREAT ALL CONDITION A MATERIAL PER SPEC. 3R83 (COND T)
RIVETS AL ALLOY EXCEPT AS NOTED.

-75					2
-76					2
-77					2
288M474-3					3
288M474-2					2
288M471	2				2
288M460	2	2	2		2
288M460	2	2	2		2
288D73	25	28	25		
288D75					25
288M423-2					1
-72	1				1
-71	1				1
-70	1				1
-69	1				1
-67	2	2			2
-66	2	2			2
-65	1				1
-64	1				1
-63	1				1
-62	1				1
-61	1				1
-60	1				1
-59	1				1
-58	1				1
-57	1				1
-56	1				1
-55	1				1
-54	1				1
-53	1				1
-52	1				1
-51	1				1
-50	1				1
-49	2	2	2		2
-48	2	2	2		2
-47	2	2	2		2
-46	1				1
-45	1				1
-44	1				1
-43	2	2	2		2
-42	2	2	2		2
-41	2	2	2		2
-40	2	2	2		2
-39	2	2	2		2
-38	2	2	2		2
-37	2	2	2		2
-36	2	2	2		2
-35	2	2	2		2
-34	2	2	2		2
-33	2	2	2		2
-32	8	8	8		8
-31	8	8	8		8
-30	2	2	2		2
-29	2	2	2		2
-28	2	2	2		2
-27	2	2	2		2
-26	2	2	2		2
-25	2	2	2		2
-24	2	2	2		2
-23	2	2	2		2
-22	1	1	1		1
-21	1	1	1		1
-20	1	1	1		1
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-11	1	1	1		1
-10	1	1	1		1
-9	1	1	1		1
-8	1	1	1		1
-7	1	1	1		1
-6	1	1	1		1
-5	1	1	1		1
-4	1	1	1		1
-3	1	1	1		1
-2	2	2	2		2
-1	2	2	2		2

288M425-2

-75	PBY-3	288M450	
-76	PBY-5	288M450	
-77	PBY-3	PBY-M475	
-42	PBY-5	288M450	
-43	PBY-4	288M475	
-44	PBY-5	288M833	
-45	PBY-5	PBY-M1000	
-50	PBY-5	288M1000	
-51	AN931-4	288M1000	
-52	PBY-4	288M450	
-53	PBY-4	288M450	
-54	PBY-4	288M833	
-55	PBY-5	PBY-M1000	
-56	PBY-5	PBY-M1000	
-57	PBY-2	288M900	
-58	PBY-4	288M900	

AN442D4	
AN442D6	
AN442D7	

REPLACES 28B425 ref 12-28-37
APPROVED 4-29-37
DATE

REPLACED BY
LIGHT OR DISCERNING WILDING
OTHERWISE SPECIFIED

CALC WT.	ACT WT.	QUAN ON MODEL	QUAN NEXT ASSY	REQ'D	PARTS	
SCALE 6"=1'-0"		REQUIREMENTS PER AIRPLANE			MAT.	PARTS LIST PER ASSY.
AC						
NAVY NOTED		NOTED	NOTED	NOTED		
MATERIAL		SPEC.	HEAT TREAT	FINISH		

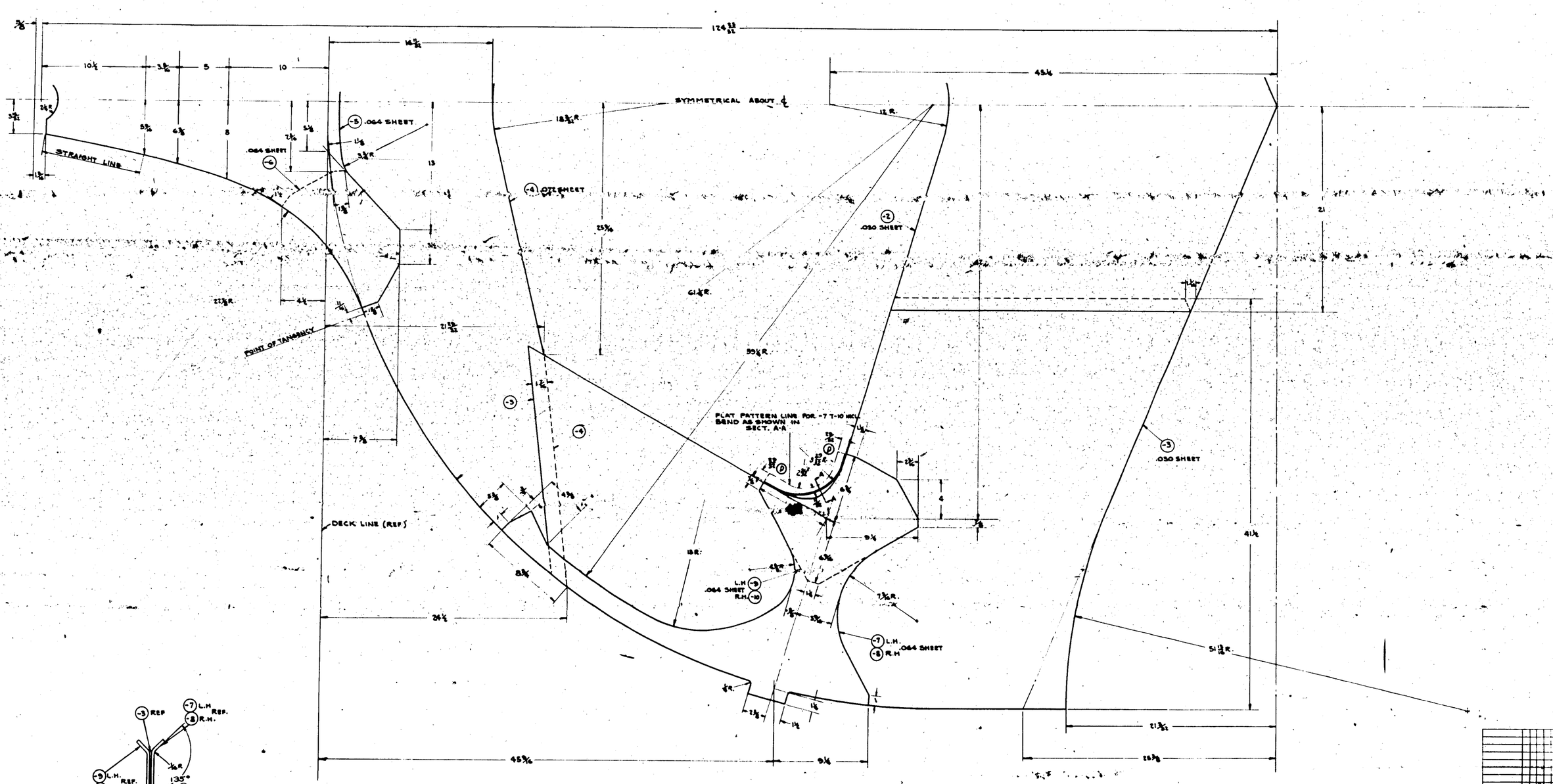
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
STAMP PT. NO. WHERE SHOWN

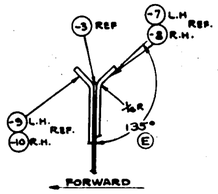
NAME: BELTFRAME-HULL-STATION 4.25

DWG NO. J 28D1425

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATIONS	DATE	BY
C	TRACED TO DATUM	5-8-57	[illegible]
D	2 3/32 R WAS 2 R & 3 7/32 R WAS 2 11/16 R	6-6-57	[illegible]
E	135° WAS 90°, No Wt. Chg.	7-24-57	[illegible]

E-021604





SECT. A-A
12" = 1'-0"

PORT SIDE LOOKING FORWARD

-2 TO -6 INCL. SPEC. 47A10 COND T NO. H.T.
-7 TO -10 INCL. SPEC. 47A10 COND A H.T. BEFORE COND T

-3,-6	PBV-5B	2881500	2	
-3,-6	2B-5MN	2881500	2	
-3,-6	2B-5ME	2881500	2	
-3,-6	2B-5MC	2881500	2	
-3,-6	2B-5MA	2881500	2	
-3,-6	PBV-5	2881500	2	
2-4-5-7-8-9-10	PBV-5B	2881500	1	
2-4-5-7-8-9-10	2B-5MN	2881500	1	
2-4-5-7-8-9-10	2B-5ME	2881500	1	
2-4-5-7-8-9-10	2B-5MC	2881500	1	
2-4-5-7-8-9-10	2B-5MA	2881500	1	
2-4-5-7-8-9-10	PBV-5	2881500	1	
	PBV-5B	SEE SH.		
	PBV-5	SHEET		-10
-10	PBV-1	2881500	.56	-9
-9			.56	-8
-8			1.31	-7
-7			1.69	-6
-6			1.69	-5
-5			3.75	-4
-4			12.44	-3
-3			2.90	2881501-2

-1	PBV-1	2881501	1			
-2	MODEL	NEXT ASSY.	QTY.	PARTS		

REQUIREMENTS PER AIRPLANE | MAT. | PARTS LIST FOR ASSY.

AC

ALCLAD 24S-T3 ALUMINUM ALLOY SH. SPEC. | NOTED | NOTED | NONE | 5-29-57

MATERIAL | SPEC. | HEAT TREAT | FINISH | DRAFT | CHECK | DES. | ENGR.

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME PLATING-HULL-BULKHEAD #5

QTY. REQ'D NOTED

J 2881501

REVISED 8-12-57 DATE

NOTED SCALE WT. | ACT. WT.

SCALE 3" = 1'-0"

REPLACES

REPLACED BY

1 UNIT ON DRAWING UNLESS OTHERWISE SPECIFIED ± 1/32

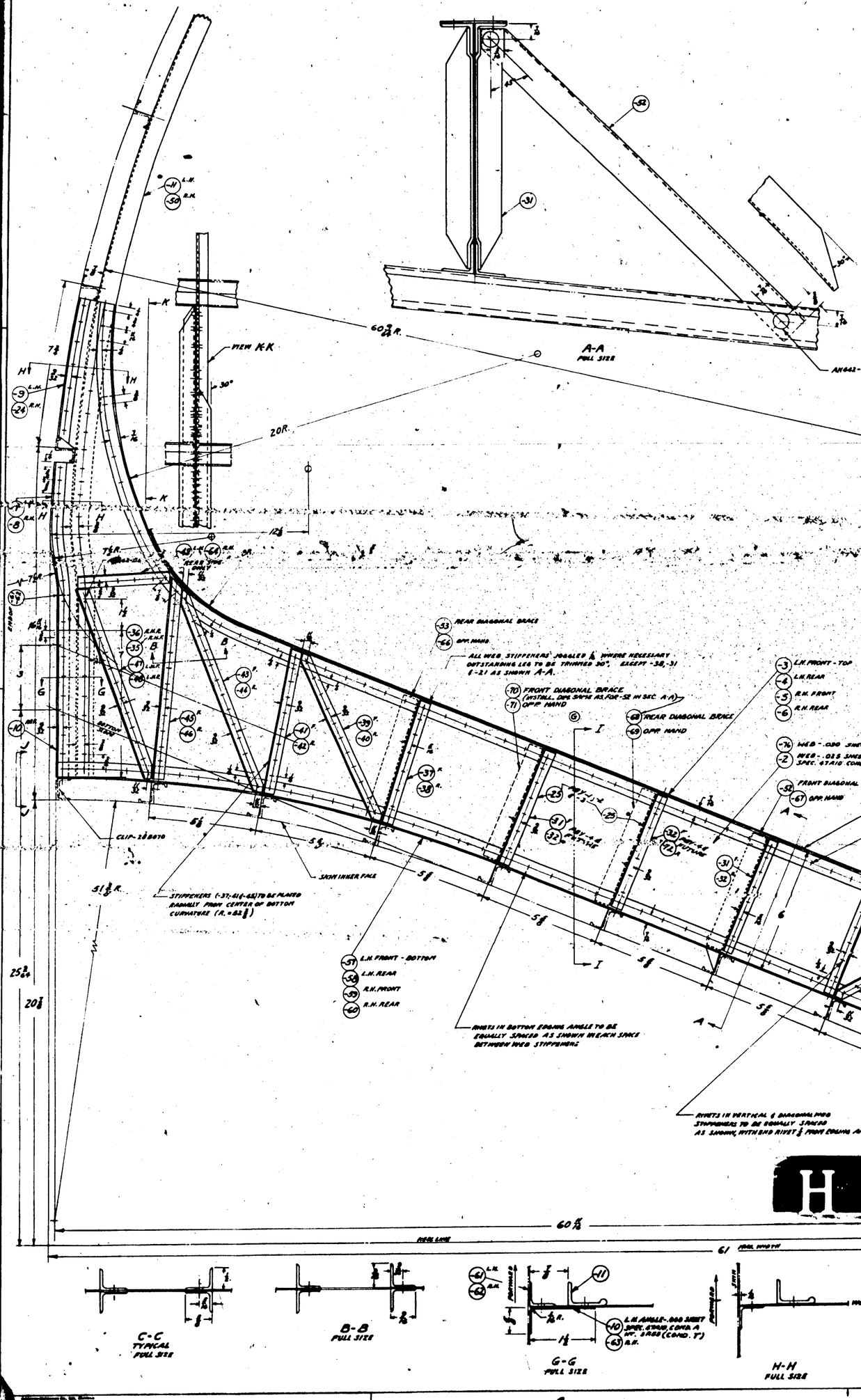
H 94

INCORPORATES
PBY-1 BURBAN CHANGE #48, #85
PBY-2 " " #42
PBY-3 " " #18

LET	ALTERATION	DATE	BY
F	TRACED UP TO DATE	6-7-39	
G	ADDED DIAGONAL BRACES -48, -49 -50, 4-TY (SPECIAL ASSY)	6-9-39	
H	MAKIN-ESTAMPED & ADD -48 THRU -50 PBY-4 & NOTE PER TO TOP SHEET	6-27-39	
I	CUT OFF -36-37-38 @ -76 CHANGED -3-4-5-6 & -17-28-29 @ -6-66 & -3 REQ'D @ TO -38	10-30-39	
J	ADDED -73 & -74 ON TOP OF FRAME	2-3-39	
K	-76 MADE -2 CHANGE -070 REQ'D ADDED -69 & -70 & -71 MOVED FROM SKIN TO FLANGE ADDED OF RELIEF PUNCH	3-7-39	

C.O. # 7356
E.O. 10700

SUPPLIES & EQUIPMENT CLASSIFICATION



E. EXTRUSION PARTS LIST
(ALL EXT. SPEC. 46A9 COND. 'T') EXCEPT -3-4-5-6-17-28-29-40 ALA (COND A) HT. SOLN
¾₆ x ⅜₆ x .040 PLAIN EXTR. ANGLE-ALCOA DIE NO. K-62402 - 7, -8, -9, -12, -13, -22, -23, -24, -25, -27, -28, -38, -39, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -61, -62, -29, -30, -95, -96, -64
⅝₆ x ½₆ x .060 PLAIN EXTR. ANGLE-DIE NO. K-5876 - -14, -15, -16, -17, -18, -19, -20, -21, -31, -32, -37, -38, -39, -72
⅜₆ x ⅜₆ x ¼ PLAIN EXTR. ANGLE-DIE NO. K-5401 -3, -4, -5, -51, -52, -53, -57, -58, -59, -60, -6, -68, -69, -70, -71, -66, -64, -67
⅞₆ x ⅜₆ x .060 EXTR. BULB ANGLE-DIE NO. K-1559 -11, -50.

QUANTITY	PART NO.
-56 PBY-5 & 10	288595
-55 EB-5 ME	2881000
-5 PBY-5	2881000
-4 PBY-5 & EB-5 ME	2881000
PBY-3	2881000
PBY-2	2881000
PBY-1	2881000

MATL	NOTED	NOTED	NOTED
MATERIAL			
SPEC.	HEAT TREAT	FINISH	

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.

BELTFRAME HULL - STA. 5.25

DWG. NO. 288525

6-7-39 APPROVED
18.83 CALC WT.
SCALE 1"=10" 1"=1'-0"
DRAWN
CHECKED
ENGR. APPROVAL

BUREAU CHANGES INCORPORATED
POST-1 -10 : 5-22-48
POST-2 -10 : 7-15-48
POST-3 -10 : 7-1-49

LET	ALTERATION	BUREAU APPROVAL
F	TRANSFER TO SHEET	11-27-47
G	ADDED BRACKET, BRACES & -60, -61 (1 PR. REQD) -61, -62 & -63 (1 PR. REQD)	6-19-47
H	CHANGE -64 TO 8 REQD. AND -65 TO 8 REQD. -65 REV. ANGLE (2 REQD)	10-20-47
J	ADD -64-65-66-67 USED FOR DWG STIFFENERS (16 REQD) ADD -64-65-66-67 USED FOR DWG 208A1525	10-20-47
K	CHANGE -119 TO BE MADE FROM 1/2" PLATE	1-14-48
L	ADDED -133 & -134 ON TOP OF FRAME	2-6-48
M	CHANGE -64 & -65 FROM 8 REQ'D TO 4 REQ'D ADDED -74 & -77 REPLACING -66 & -67 FROM POST-1	4-27-48
N	REPLACED -74 & -77 WITH -74 & -77 LH RH STIFFENERS SEE -64 & -67 FROM POST-1 ADD -68 & -69 ASSY FOR POST-2	5-5-48
O	ADDED -685 ASSEMBLY, ADDED -119 ON	6-21-48
P	ADDED SECTION X-X FOR -119 SYM. (-555 ASSY) ADDED -64 & -65 & ADDED -76 POST-3 CHANGE	11-26-48
Q	ADDED -64-65-66-67 FROM 8 TO 16	12-1-48
R	-555 & -558 ASSEMBLY IN 3/4" X 8" BRACE (4) WAS (3) LAYS ON POST-2.	2-9-49

E.O. 12686
E.O. 12796
E.O. 15186, P.B.Y.S
E.O. 16817

Z-Z

(FOR -555 ASSY ONLY)
.064 X 1 1/2 X 92 3/4 ACTUAL LENGTH
AL. ALL. SHEET - SPEC. 67A10-T
CHAMFER INSD. AND OUTSD. EDGES AT 45°

FOR -550 & -0 ASSY.

PICK UP EXISTING RIVETS.

INSTALL ON ASS'Y IN BAY OF BEARING BRACKET

STRINGER "G46 (PORT)

STRINGER "G45 (PORT)

SKIN INNER FACE

AND 662-05

SKIN WIRER FACE

BUILD ANGLE

CLIP 208B210

SEE SEC. J-J DWG 208A1525

BOTTOM SLOPE

NOTE
PLANE STIFFNERS -63, -66 & -69 TERMINATE FROM CLUSTER OF RIVETS AT CHEVRONS (2" TO 3" ±)

FRAME BOTTOM SLOPE SAME AS KEEL SLOPE (6°15') IN ALL SECTIONS PARALLEL TO KEEL PLANE
SEE 208B205 FOR TABLE OF ANGLE SLOPES

NOTE -
RIVETS IN TOP & BOTTOM EDGING ANGLES TO BE EQUALLY SPACED AS SHOWN IN EACH SPACE BETWEEN WEB STIFFNERS.

RIVETS IN VERTICAL DIAGONAL WEB STIFFNERS TO BE EQUALLY SPACED AS SHOWN WITH END RIVETS 3/4 FROM EDGING ANGLE

SEE DWG 208A1525 FOR SECTIONS
B-B, B-B, C-C, E-E, H-H, I-I, F-F, L-L, J-J,

H 96

NOTE:
LIST CONSISTS OF ANGLES (PLAIN EXT. & BULB) WITH CORresponding DRAW ANG. ALL STIFFENERS SPEC. 4489 COND. T EXCEPT -370-10 WHICH ARE 4489 CONDA HT. SA (COND T)

FINISH:
GP
2 P. MIL ON PRIM
2 P. MIL ON PRIM & FUTURE
GP

NOTE:
-64, -65, -66, -67 USED ON -0 ASSEMBLY ONLY.

NOTE:
FOR -555 ONLY
DIAGONALS -68, -69 ARE TO BE INSTALLED ON AFT SIDE OF FRAME. -68 WILL BE INSTALLED ON STARBOARD SIDE AND -69 WILL BE INSTALLED ON PORT SIDE.
DIAGONAL BRACES WILL BE ATTACHED TO DAMB STIFFENERS AND STRINGERS EXCEPT ON OPPOSITE SIDE OF B.R.

NOTE:
-35 -48, -71-72-73 TOP ENDS ARE CUT 90° FOR ATTACHMENT OF DIAGONALS

NOTE:
ALL RIVETS AN 662-05 UNLESS OTHERWISE SPECIFIED
SMALL 3/16 FOR AN 662-05 RIVETS
SMALL 1/4 FOR AN 662-06 RIVETS

ALL AL ALLOY SHEET SPEC. 67A10 QUART EXCEPT AS NOTED
ALL AL ALLOY EXTRUSIONS SPEC. 4489 QUART EXCEPT AS NOTED
HEAT TREAT ALL CONDA MAT. SPEC 3E-53 TO CONDT.
RIVETS AL. ALLOY EXCEPT AS NOTED

PORT SIDE LOOKING F'WD

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.

BILT FROME HULL - STA. 5.50

208A1550

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
H	TRACED UP TO DATE.	6-8-37	REA
I	CHANGED -370 TO PASS BY TO BE.	7-26-37	
J	CHANGE - 2 TO - 85 ADDED		
	-550 ASSY. ADDED PARTS & DOPE	8-13-37	WHM
K	-17 & -18 SPEC. 2450 WAS 2451T	10-14-37	DOA

E.O. 17105

(I)

(J)

(K)

-17, -18 Material: K1559 24 S0 Al Alloy.

(17) L.H. (18) R.H. BULB ANGLE

INTERSECTION OF DECK & CHINE RADII

(11) L.H. (12) R.H.

(13) L.H. (14) R.H. END OF

(15) L.H. (16) R.H.

(42) L.F. (44) R.F. (43) L.R. (45) R.R.

(46) REAR DIAGONAL BRACE

(39) L.H. F&R (54) R.H.

(40) F (41) R

(32) F (33) R

(34) F&R

(36) F&R

(34) F&R

(30) F (31) R

(32) F (33) R

(28) F (29) R

(24) F (27) R

(24) L.F. (37) R.F. (26) L.R. (38) R.R.

(22) L.F. (20) R.F. (23) L.R. (21) R.R.

AN442-PS

CLIP-2881070 SEE SEC. J-J PLG. 2881525

PLACE STIFFENERS -28,-38, 8-40 RADIALLY FROM CENTER OF BOTTOM CURVATURE. (R-47 33/64)

SKIN INSIDE FACE.

47 33/64 R

18 R

C/L AIRPLANE

SKIN INNER FACE

AN442-PS

(17) (19) BULB ANGLE

FOR SPLICE DIMS SEE PLG. 2881880

CO R.

NOTE:—
ALL WEB STIFFENERS TO BE DOUBLED AS WHERE NECESSARY (BUTTERWORTH LAP) TO BE TRIMMED 30° EXCEPT -31, -36, & -38 AS SHOWN SEC A-A PLG. 2881525

(J) WEB-.030 SHEET SPEC. 47A10 COND T FOR -550 ASSY

(3) L.H. FRONT-TOP (4) R.H. (5) L.H. REAR (6) R.H.

(2) WEB-.025 SHEET SPEC. 47A10 COND T FOR -0 ASSY.

(47) L.H. REAR DIAGONAL BRACE SEE SEC. A-A PLG. 2881525

(50) R.H.

(7) L.H. FRONT BOTTOM (8) R.H. (9) L.H. REAR (10) R.H.

NOTE:—
SEE 2880036 FOR TABLE OF ANGLE SLOPES FRAME BOTTOM SLOPE SAME AS KEEL SLOPE (G-18) IN ALL SECTIONS PARALLEL TO KEEL PLANE.

RIVETS IN TOP AND BOTTOM EDGING ANGLES TO BE EQUALLY SPACED AS SHOWN IN EACH SPACE BETWEEN WEB STIFFENERS

RIVETS IN VERTICAL & DIAGONAL STIFFENERS TO BE EQUALLY SPACED AS SHOWN WITH END RIVETS 1/4 FROM EDGING ANGLE.

SEE PLG. 2881525 FOR SECTIONS A-A, B-B, C-C, G-G, H-H, I-I, J-J, K-K, L-L

SEE PLG 2881580 FOR SECTION N-N

(51) R.H. (48) L.H. REAR DIAGONAL BRACE AN442-PS

SLOPE ANGLE

M FOR PBY-2&3

SEE DETAIL F PLG. 2881525

GUSSET 2881525-55

GUSSET 2881523-54

AN442-PS

ANSID-DG RUBBING BLOCK -2881391-2

RUBBING BLOCK -2881391

DETAIL M FOR PBY-2&3

FOR PBY-1

COTTON WEBBING 8376L-KS-1.5 1 1/2 x 3/8 x 1/16

RUBBING BLOCK -2881391 1 1/2 x 7/16 x 3/8

DRILL #30 (1/8) AN 509-D6-7 AN 340-D6 4 REQ'D

FORWARD

NOTE:—
LIST CONSISTS OF ANGLES (PLAIN, EXTRUDED & BULB) WITH CORRESPONDING DASH NOS.

ALL EXTRUSIONS SPEC. 46A9 COND T UNLESS OTHERWISE NOTED

(I) 1/2 x 1/2 x .040 EXTRUDED ANGLE - DIE No. K-5401 -3, -4, -5, -6, -7, -8, -9, -10, -46, -47, -48, -49, -50, -51, -5 TO -10 INCL SPEC 46A9 COND A HT. TR 53 (CONDT)

1/2 x 1/2 x .040 EXTRUDED ANGLE - DIE No. K-6340 -11, -12, -13, -14, -22, -23, -26, -27, -32, -33, -34, -40, -41, -42, -43, -20, -21, -44, -45, -52, -53.

5/8 x 1 1/2 x .060 EXTRUDED ANGLE - DIE No. K-8876 -24, -25, -28, -29, -30, -31, -36, -39, -37, -38, -54

7/8 x 1/2 x .060 EXTR. BULB ANGLE - DIE No. K-1559 -17, -18, -19

1 1/2 x 1 1/2 x .040 PLAIN ANGLE - SPEC. 47A10 COND A - H.T. SR 53 (COND T) -15, -16

AN 345-D6	6	6	6	
AN 510-PK-7	6	6	6	
5734A-3.5	2	2	2	
8774H-KE-1.5				
AN 349-P6-4				
AN 392-D6-74				
AN 442-P6				
AN 442-P8				
2881575-55				2
2881523-54	2	2	2	2
2881525-54	2	2	2	2
2881391-2	2	2	2	2
2881391	2	2	2	2
2881870	2	2	2	2
2 FIN 575-54	2	2	2	
2 FIN 575-55	1	1	1	
-50	1			
-49	1			
-48	1			
-47	1			
-46	1			
-43	2			
-44	2			
-42	2			
-41	2	2	2	2
-40	2	2	2	2
-39	2	2	2	2
-38	1	1	1	1
-37	1	1	1	1
-36	2	2	2	2
-35	2	2	2	2
-34	2	2	2	2
-33	2	2	2	2
-32	2	2	2	2
-31	2	2	2	2
-30	2	2	2	2
-29	2	2	2	2
-28	2	2	2	2
-27	2	2	2	2
-26	2	2	2	2
-25	2	2	2	2
-24	2	2	2	2
-23	2			
-22	2			
-21	2			
-20	2			
-19	2			
-18	2			
-17	2			
-16	2			
-15	2			
-14	2			
-13	2			
-12	2			
-11	2			
-10	2			
-9	2			
-8	2			
-7	2			
-6	2			
-5	2			
-4	2			
-3	2			
2881570-2	2	2	2	

-19	PBY-5A	2885575
-19	PBY-5B	2885575
-550	PBY-6	2881000
	PBY-4	2881000
	PBY-3	2881000
	PBY-2	2881000
	PBY-1	2881000

FINISH COL.	
Z	ANODIC TREATMENT
P	P-37 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMIUM PLATE

FINISH: C-P ON PBY-1
Z-P - AP ON PBY-5 (OTHERS)

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RIVETS WILL BE AN442-D8
DRILL 5/32 FOR AN442-D5 RIVET
DRILL 3/16 FOR AN442-D6 RIVET

ALL AL ALLOY SHEET SPEC 47A10 COND T EXCEPT AS NOTED
ALL AL ALLOY EXTRUSION SPEC 46A9 COND T " "
HEAT TREAT ALL COND A MAT SPEC 3R-53 TO COND T
RIVETS AL ALLOY EXCEPT AS NOTED

PORT SIDE
LOOKING FORWARD

H 97

REPLACES					
REPLACED BY					
LIMIT OR DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/32					

INCORPORATES PBY-1 DU. NOS. CNS 6181 PBY-2 " " " 6181

SAME AS -14 EXCEPT FOR CUTOUT (No Rubber Lock Channel)

SAME AS -14 EXCEPT FOR CUT-OUT

11/16 DIA. HOLE CUTOUTS IN PARTS PORTSIDE ONLY

L.H. (24) R.H. (25) ON-65 ASSEM.

FOR ANGLE SEE 288036

SECTION D-D FULL SIZE

SECTION C-C FULL SIZE

PBY-1,2,3&4

AN442D4

AN442D5

(13) ON-65 ASSEM.

LENGTH OF ARC 40½"

97°

7½"R

53 3/64 R

55 1/8

47 1/8

19 33/64

SECTION E-E FULL SIZE

SECTION F-F FULL SIZE

22F313

AC428-04

SECTION G-G FULL SIZE

288700-36

CLIP 288700-36 OMITTED ON PBY-2 & PBY-3 FUTURE

C SINK THIS RIVET-IN BELT-FRAMES

12 OVER ALL

22F313 F

NOTE- SEE 288176 FOR INSTALLATION OF THIS PART

AN442D4 SPACE APPROX.

AN442-D6 SPACE AS SHOWN

AN442-04

DRILL "28 (.1405) AN 3209-06-P AN 365-04

VIEW OF PORT SIDE LOOKING FORWARD

AN442D5

SECTION A-A FULL SIZE

AN442-06 ON ASSEMBLY

TYPICAL SECTION OF -9, -10, -11, 24 SO SPEC 4148-A HEAT TREAT 58-63

SECTION B-B FULL SIZE

TYPICAL SECTION OF -13, -14, -15, -20, -21, -24 24 DO SPEC 4148-A HEAT TREAT 58-63 SCALE: FULL

LIST OF DASH NOS. WITH MATERIAL FROM WHICH THEY ARE MADE

EXTRUSIONS ARE SPEC 4649 COND T (EXCEPT AS NOTED Z)

(V) MAKE -2, -3, -4, -8, -16, & -22 FROM Y-5 T-AST, OR K1553, AL. ALLOY EXTR. SPEC. 00-A-334-T.

(Z)

AL. ALLOY SHEET 4140 COND A HEAT TREAT 58-63 COND T -16, -18, -26, -27

AL. ALLOY SHEET 4310 COND T -5, -6, -14, -23

REF. DRAWINGS

HULL OFFSETS 288002

BULKHEAD ANGLES 288036

STRINGER & SNUBS COMPT 2881007

PBY-1 & PBY-2: 2-PROP ON PBY-4, 2-P&S ON PBY-3 & FUTURE

E.10436

REPLACES 288225 OF 1-19-44

REPLACED BY

APPROVED 5-22-37

SCALE 1 1/2 FULL

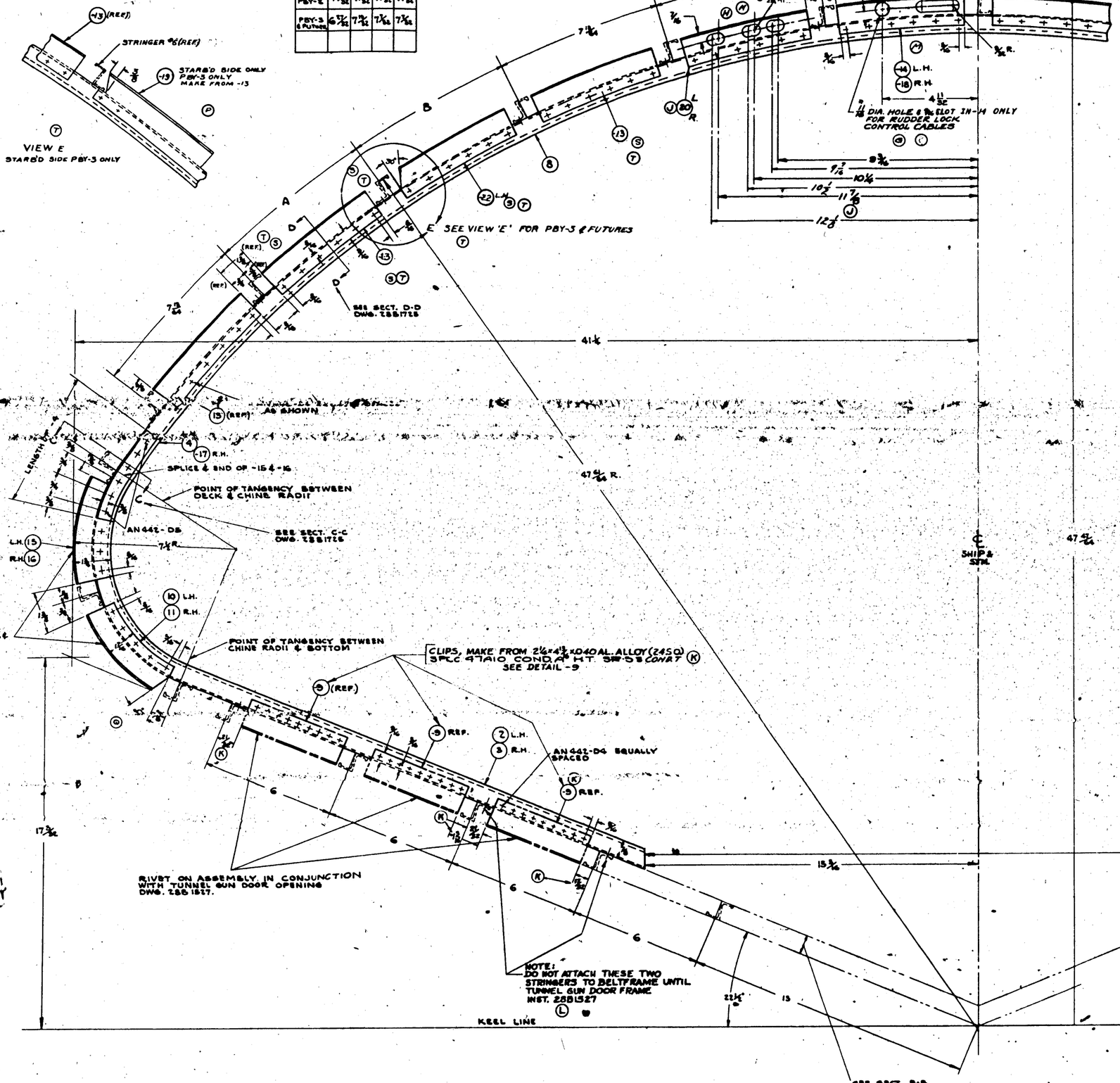
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

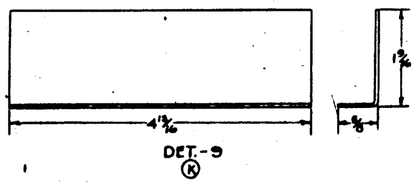
BELTFRAME - HULL STATION 7.85

H 98

INCORPORATES
PBY-1 BU. AER. CHG. 6191
PBY-2 " " 691

LET	ALTERATION	
F	TRACED	
G	ADDED 11/16 DIA. HOLE IN -14	C.O.7390
H	ADDED 3-5/8 DIA HOLES IN -13 NEAREST ℄ AT TOP	E.O.14452
J	-18 & -20 WERE -18 11/16 DIA. WAS 11/16 ADDED -550 ASSY FOR PBY-5B	E.O.15365
K	21/32 WAS 1/4 ; 7/16 WAS 5/16 13/16 WAS 3/4 ; 9/16 WAS 5/16 SECTION B-B REMOVED	E.O.28764
L	NOTE ADDED	E.O.26383 E.O.31780
M	-1 & -5 AT STA. 7.75 REVISED ZONE NO. AS CHANGED IN STRUCT.	
N	CHANGED NOTE AT -14 & -18 FROM WAS 3/8 DIA HOLE"	E.O.36468 PBY-5
P	-5 WAS -13, ADDED 3/8" DIA. (3) PLACES; ADDED -18 (1) TOTAL 4 CORRECT BD. TO "B" IN CALLOUT. WT. CHG. NEG.	
Q	ADDED DIM. 30" TO -18 & -19, WT. CHG. NEG.	
R	ON BACK OF SHT. REVISED NOTE "SHR ANGLES - AL ALLOY (2024) PART NOS. -3, -4, -5, -6, -17 -18 & -19 ARE ALCLAD DIX K1559 SPEC. QQ-A-200/3 CANCEL 2" WIDTH MAT. REQ. +2-3, -4, -5, +3 TO BE "Y-5-A5T" WT. CHG. + 3LB	
S	ADDED IN 3/4 FOR PBY-5 PBY-5A	E.O.38979
T	ADDED VIEW "E" & NOTE "SEE VIEW 'E' FOR PBY-5 & FUTURES" REMOVED 30° CUTOUT & 3/8 DIM. -13 WAS -13 & -14 WAS -13 & -14 WAS -18 & -19 FOR PBY-5, PBY-5A & -5B ADDED -18 (1) & -19 (2) REMOVED -13 (2) & -18 (1) ADDED -14 & -18 (1 & 1) ADDED REMOVED FROM MATERIAL NOTES PARTS -2, -3, -4 MADE -T MATERIAL" NO WT. CHG.	E.O.38273 CANCELLED
U	ON FACE OF DWG. ADDED TO MAT'L NOTE FOR -2, -3, -4, -5, -17 "OR K1559, AL. AL. EXTR. SPEC. QQ-A-200/3" NO WT. CHG.	





BELTFRAME STA. 7.78
PORT SIDE
LOOKING FORWARD

-550	P.B.-5A(H)	2885300	1
-550	P.B.-5A(H)	2885200	1
-550	PBY-5	2886000	1
-550	PBY-5A	2883200	1
-550	PBY-5B	2886000	1
-5	PBY-5A(H)	2881527	6
-5	PBY-5	2881527	6
-5	ALL 5's	2881527	6
350	STRAP	2880000	1
550	SHELF	2880000	1
550	PBY-5	2880000	1
-9	PBY-5	2881527	2
-9	PBY-5A	2881527	2
	PBY-5	2881728	
	PBY-5A	2881728	
	PBY-5B	2881728	
	PBY-2	2881728	AN 442-DB
	PBY-1	2881728	AN 442-DB

-22
-20R
-20L

C-91874

FINISH
2-P-80 ON PBY
2-P-80 ON PBY-2 & FUTURE

C-104496

REPLACES			
REPLACED BY			
LIST OF DRAWINGS WHERE THIS DRAWING IS USED			

SUPPLIES & EQUIPMENT CLASSIFICATION		
LET	ALTERATION	DATE
C	TRACOTYE DATE	7-[illegible]
D	[illegible]	[illegible]

ED 20086

℄ KEEL

AFT

℄ STR

STA. "750 AT HEEL OF BULB ANGLE RESTING ON STRINGERS

℄ STRINGER "31

NOTE-
CASTINGS (28F1098) SHOULD REST AGAINST STRINGER "32

STA "725 AT HEEL OF BULB ANGLE RESTING ON STRINGERS

STA "725 NEXT TO SKIN

10 1/16

5 15/32

24 7/8 REF

86°

AN442D5 RIVET

22 3/4

17 1/8

15/16

40°

1/4

BEFORE MAKING CUTOUT SEE NOTE "4

(2) 2" REINF. L.H.
(3) 2" REINF. R.H.

.051 AL ALLOY SHEET SPEC. 4130 (COND. T) 24S1 (D)

5 1/2 REF

22 1/2

OUTLINE OF BASE CASTING 28F1098 (REF) NO RIVETS INSIDE THIS AREA

3 5/8 3 5/16 3 1/16 R 3 15/16 R 3 5/32

A A B B

10 3/16

(5) ANGLE - FOR PROPELLER'S MAY BE INSTALLED ON 2 SIDES

1 1/2 @ C

5 13/16

7 EQUAL SPACES

6 EQUAL SPACES

6 EQUAL SPACES

1 1/2 1 1/8 1 1/2 1 1/2

5 5/8 15/16 11 1/2

℄ STRINGER "32

℄ STRINGER "33

℄ STRINGER "34

5 SPACES 1@C

12 27/32

5 13/16

Q 4503D4 RIVET

100°

45°

RIVET

SECTION A-A

SECTION B-B

3. RIVETS SPACING THRU STRINGERS & BELTFRAMES NOTED ON HULL DWG 28B1000

4. CUTOUT MUST AGREE WITH BASE CASTING DWG 28F1098 & WITH FLARE INSTALL DWG 28A1006

2. DRAWING SYMMETRICAL ABOUT ℄ AIRPLANE

1. DRAWING IS TRUE VIEW OF PORT SIDE OF BOTTOM. LOOKING FROM INSIDE.

QQM2B4	3/32	1/2	1/2	1/2	III	
AN426-D4	3/32	5/16	1/16	1/16		
AN426D5	3/32	5/16	1/16	1/16		

FINISH:
ANODIZE, ALT PRIMER
TO MEET PRIMER
MAINTENANCE PAINTING SURFACES

PBY-5A	28A1006	1	
PBY-5B	28A1006	1	
PBY-5	28A1006		
PBY-5	28A1006	28B1176 -5B	1 1 1 1
PBY-5	28A1006	-5A	1 1 1 1
PBY-5	28A1006	-5	1 1 1 1
PBY-5	AA42D5	28B1176 -5A	1 1 1 1
PBY-5	AA42D5	PART NO.	

REPLACES
REPLACED BY
LIMIT OR DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/2

E. Bk. DRAWN 6-28-37 DATE
CALC. CHKT.
SCALE 12" = 1'-0"

A/C NAVY NOTED
MATERIAL

G.N. MODEL NEXT ASSY. USED
REQUIREMENTS PER AIRPLANE DAT.
NOTED NOTED 3-9-38 -W-5

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME SUPPORT INST-HULL FLARE BASE CASTING

COPY NUMBER J 28B1176

H 100

ALL ALL ALLOY SHEET .051 SPEC 4 PARA (COND A) ALLOY BAR EXCEPTION NOTED ALL ALLOY EXTRUSIONS SPEC 4 PARA (COND E) ALLOY STEEL AS NOTED HEAT TREAT ALL COND A MATERIAL PER SPEC 20 50 RIVETS AL ALLOY EXCEPT AS NOTED

INCORPORATES
PBY-1 SU. ASB. CHG. 8131
PBY-1 " " " 8191

WO. 12-2-36

LET	SUPPLIES & EQUIPMENT CLASSIFICATIONS ALTERATION	DATE	BY
B	TRACED UP TO DATE	6-14-38	
C	ADDED OPPOSITE HAND ASSEMBLY -16 FOR -15C AND -19 FOR -18	10-31-38	
D	ADDED -20.2 SECTION A-A	6-21-39	
	ADDED AN E.E-BB-16 (4 REQ. PER SHIP)	"	"
	AN 960-DB (8 REQ. PER SHIP), AND	"	"
	AN 960-D8 (4 REQ. PER SHIP)	"	"
E	REVISED QTY. REQ. PER KEEL [illegible] & Engineering Authority No. 1175-S	6-26-39	
F	CORRECTED FROM NOTE FOR -11, -18, -19 & -21 ASSY.	11-20-39	
G	ADDED -21 O/H TO -13	"	"
H	REVM. -20, AN 316 D8-14, AN 960 D8 + AN 960 D8 EACH PBY-2	1-1-40	
J	ADDED 7/16 DIA. HOLE IN -15	9-11-40	
K	REMOVED 6 NE. -16 REQ. PER NO. 1X -13. (VIEW B)	11-13-41	
L	ADDED 22.2 & 22.5 FOR -55 ASSY. REPLACING -13.	2-11-42	
M	PER PBY-5A.	10-29-42	
N	9 DR WAS 10 DR	12-9-42	
O	8 WAS 4 REQ.	12-9-42	
P	-25 ASSY. ADD 1/4 DIA. HOLE IN -15 PER E.O. 33478 PBY-3 & 5 WAS 7/16" DIA. 10" FROM 9 DR ON FACE OF DWG.	1-27-43	
Q	ADDED 20" CUTOUT IN -14 & -15 PER E.O. 19466A	4-6-43	
R	ADDED 24" CUTOUT AT END OF -14 & -15	4-6-43	
S	ADDED 24" CUTOUT IN -14 & -15 PER E.O. 11581	7-19-43	
T	REMOVED NOTE FROM FACE OF DWG. "BUILD ANGLES -AL. ALLOY (2637) PER ET NOS. -2, -3, -4, -8, -18, 3/16 X 3/16 X .050 ALCOA DIA. "K" STR. SPEC. 46187, & REPLACED NOTE: "MAKE -2, -3, -4, -8, -18 FROM "Y-S-AST"	5-5-43	
U	ON FACE AT NOTE "MAKE -2, -3, -4, -8, -18 FROM Y-S-AST" ADDED "OR R1559, AL. ALLOY EXTR. SPEC. QQ-A-354-T." NO WT CHG.	10/10/43	HOOD

SECTION A-A
FULL SIZE
PBY-1 ONLY
(D)

VIEW E
6"-1'-0"
STB'D SIDE

-14 (REF)
-22 STB'D SIDE ONLY PBY-5 & FUTURE

SEE VIEW E

SEE SECTION D-D DWG. 28B1725

AN442-D4 EQUALLY SPACED AS SHOWN

SPLICE ENDS OF -17, & -18

POINT OF TANGENCY BETWEEN DECK & CHINE RADII.

SEE SECTION C-C DWG. 28B1725

AN442-D5

POINT OF TANGENCY BETWEEN CHINE RADIUS AND BOTTOM

AN442-D4 EQUALLY SPACED AS SHOWN

SEE SECTION B-B DWG. 28B1725

KEEL LINE

SEE SECTION B-B DWG. 28B1725

11/16 DIA. HOLE IN -15 & -25 (PORT SIDE) ONLY FOR RUDDER LOCK CONTROL CABLES.

7/16 DIA. HOLE 2 HOLES PBY-5 & FUTURE

LH -18 RH -18 PBY-1 & 2 ONLY
5 PDE-25
THIS HOLE PORT SIDE ONLY

LH -25 -55A ASSY

AN 816-D8-12 (8 REQ'D)
AN 960-D8 (4 REQ'D)
AN 970-D8 (8 REQ'D)
DRILL #18 (.169)
5 PLACES
PBY-1 ONLY

20 1/2 I.D. x 1/4 THICK RUBBER HOSE (PBY-1 ONLY) SLIT OPEN (PORT & STBD)

MAKE -2, -3, -4, -8, -18 FROM Y-S-AST OR R1559 AL ALLOY EXTR. SPEC QQ-A-354-T (U)

CLIPS .040 AL. ALLOY (2430)
PART NOS. -9, -10
MAKE FROM DRAWN ANGLE M-925
SPEC. 47A10 COND. A H.T. SR-53 CON'D.T

CLIPS .030 AL ALLOY (2430)
PART NOS. -14, -13, -16, 23, -24, -25, -22
MAKE FROM DRAWN ANGLE M-924
SPEC. 47A10 COND. A H.T. SR-53 CON'D.T

CLIPS .030 AL ALLOY (2430)
PART NOS. -11, -12, -13, -17, -18, -21 (E)
.030 SHEET
SPEC. 47A10 COND. A H.T. SR-53 CON'D.T

* NOTE: DIM FOR -55 ASS'Y ONLY (P)

BELTFRAME STA. 6
PORT SIDE
LOOKING FORWARD

H-101

G.P. GREEN PRIME FINISH CODE
Z
F
KP
P

FINISH:
2-P-GP ON PBY-1
2-P-GP ON PBY-2 & FUTURE

| | | |

SPOTWELD AT APPROX. 3/8 SPACING

SPOTWELD 4/8 SPACING

6 3/8 (REF) TO DECK LINE

R4303AD4 RIVET

40° 55'

(E) LH (F) RH

(A) LH (B) RH

(C) LH (D) RH

(M) EQUIPENCE 3" WIDE CEMENT IN PLACE WITH BOSTIK OR EQUIV.

12R (REF)

61.331 R FACE OF TO OUTER FACING REINFORCING PLATE (REF)

30.225

ELASTIC STOP NUT AT TECH. 30 HUMP WITH AN425-03 RIVETS

AN526-DD832-7 (2 REQ'D) REPLACED BY AN526-DD832-8 ATTACH TO 6-8-10-12 WITH AN425-03 RIV.

AN526-DD832-6

1 APPROX 12 SPACES

1/8 APPROX

2 APPROX 12 SPACES

8 EQUAL SPACES

AN526-DD832-8 07006-AL.11-090

DRILL #10 (.164) 12 HOLES ON 4.55R LOCATE TO CLEAR RIVETS IN HULL

AN526-DD832-6

AC346-DF832 (L) 7 PLACES ATTACH TO 2-L-SWITH AN425-03 RIVETS (G)

AN960D8 WASHER UNDER HDS (15) (L)

12R (REF)

NOTE: #18 (.1695) DIA. 7 HOLES (R) (DRILL ON INSTALLATION)

3R (REF)

AN526-DD832-6 AC346-DF832 AN425-03

HULL (REF)

SECTION A~A

SECTION B~B 12" = 1'-0"

(B½H) SPEC 7772 TEMPER ½ H ALUM SHEET (.040) -2-3-4-5-6-7-8-9-10-11

SECTION C~C 12" = 1'-0"

LEAVE 3/8 OVERLAP & TRIM ON 4.55 R WITH STRUT IF NECESSARY

FINISH 2-P(-2 TO -11) INCL OF ALL OVER ON PBM & FUTURE

LET	ALTERATION	DATE	BY
F	TRACED		
G	CHANGED TO CONFORM TO LINE ON MASTER	6-9-41	
H	ADDED AC346-1F RIVETS	6-30-41	
J	ADDED R6303AD4 RIVETS	7-7-41	
K	REMOVED AN515-08-6 AS REQ 7-8-41		
	# REPLACED WITH AN526-DD832-8 & REQ'D & AN526-DD832-7 IS REQ'D		
L	AC346-DF832 WAS AC346-DF832	7-10-41	
	ADDED AC960-10-15		
	ADDED AC960-D8 (2)		
	CHANGED (2) AC346-DF832 TO AC346-DF832		
	2 1/2 DIAM. W/AS E		
M	CHANGED IN SEC. B-B -10L-11 1/4 WAS 1/8, REMD. PART. RIV'D BY SPOTWELD. CHG'D DIAM OF -8,-9,-10 WAS 1/8, REM'D & SPOT WELD. -AS 2 PLACES BY SPOT WELD.		
	SPACING NO WT. CHG.	7-9-41	MANSHIP
N	ADDED - 12R F148 WAS -21R 4-BEN. ON PAGE 8F RVL 6 PM		
	PL. NEG. WT. CHG.	7-28-41	Kenney
P	LAP JOINT AT FRONT OF FAIRING WAS BUTT JOINT. -8 & -9 REMOVED DIM 31.324 (REF) TO 30.225 ADDED REF WT. CHG IN BILL REVISED -10, 30.225 TO 30.225 ADDED D4 (A) 346-DD(E) REMOVED, ADDED -DD (A) ADDED FOR ALL ASSYS. ADDED -10 REMOVED FROM FACE NOTE 24 "AN 960 D8---1 REQ'D (A)" WAS "AN 960 D8 ---1 REQ'D AS" NO WT. CHG.	8-18-41	Quinn
R	ON FSP-V1 & -V2 DIMS. FOR 3/4 & 1 1/2 WERE 2 1/4 & 4 3/16 IN SEC A-A DIM. 4 1/2 WAS 3 7/8 ADDED TO FRONT VIEW, "NOTE: P/B (.693) DIA. --- LOCATION" (REAR VIEW DIM 4 1/2 WAS 4 WT. CHG. NEG.	8-14-41	Quinn

STA	UPPER ORDINATES 0	1	2	3	4	5	6	7	8	9	10	11	12	LOWER ORDINATES 0	1	2	3	4	5	6	7	8	9	10	11	12	RADII NOSE	TE
A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1 5/8	1 3/8
B	—	—	—	—	1 3/8	1 5/8	1 3/8	1 3/8	—	—	—	—	—	—	—	—	—	1 3/8	1 5/8	1 3/8	1 3/8	—	—	—	—	—	1 5/8	1 3/8
C	—	—	—	—	1 5/8	1 3/8	1 5/8	1 5/8	—	—	—	—	—	—	—	—	—	1 5/8	1 3/8	1 5/8	1 5/8	—	—	—	—	—	1 5/8	1 3/8
D	—	—	—	1 3/8	2 1/4	2 1/4	2 1/4	1 3/8	1 1	—	—	—	—	—	—	—	—	1 3/8	2 1/4	2 1/4	1 3/8	1 3/8	—	—	—	—	1 3/8	1 3/8
E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2 1/4	2 1/4	2 1/4	2 3/8	2 1/4	1 3/4	1 3/8	—	—	1 3/8	1 3/8
F	—	2 3/8	4 3/8	5 1/2	5 3/4	6 1/8	6 1/8	5 3/8	4 7/8	3 1/8	1 1/4	—	—	2 3/8	3 3/8	4 3/8	5 1/8	5 3/8	5	4 3/8	4 1/8	3 3/4	2 1/2	1 1/4	—	—	3 1/4	1 1/8

ALL ORDINATES STATED TO INSIDE SKIN LINE

NOTE:
ORDINATES 'F' INDICATE TANGENCY TO HULL ALLOW ½ APPROX ADDITIONAL MATERIAL FOR ATTACHMENT TO HULL

H 102

RELEASED BY 288319		6-9-36			
REPLACED BY		APPROVED BY EAS	DATE		
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CLASS	MAT'L	MODEL	HEAT TREAT
		45°-0 S NOTED			
		REQUIREMENTS PER AIRPLANE			
		NOTED	NOTED	NOTED	NOTED
		MATERIAL	SPEC	HEAT TREAT	FINISH
		CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.			

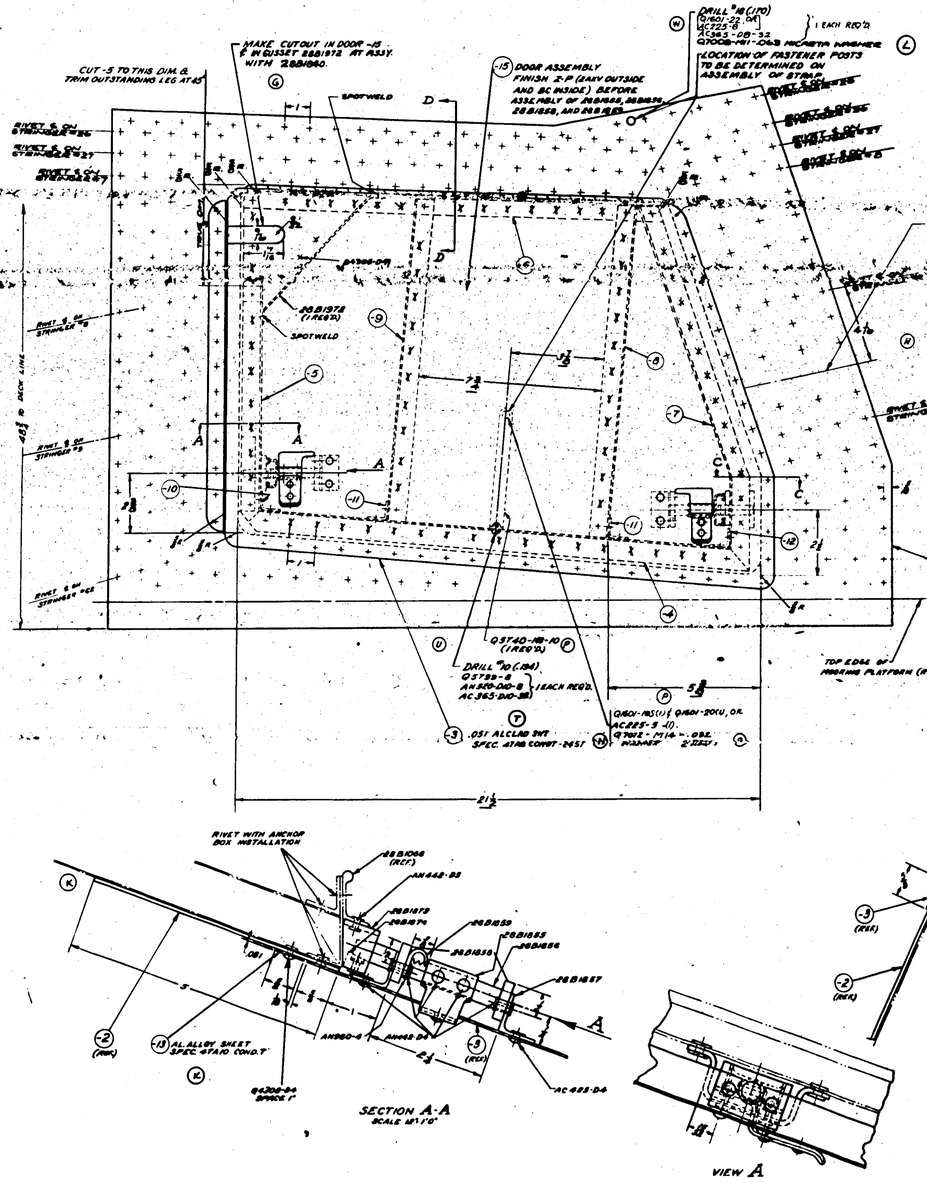
FAIRING-HULL WING STRUT-FRONT

OPP NUMBER 288835-1

J 288835

R

SUPPLIES & EQUIPMENT CLASSIFICATION			
LTR	ALTERATION	DATE	BY
P	TRACED 2ND TO DATE	10-18-39	Bennett
Q	DIMENSIONS ADDED TO SLAT	1-22-40	Bennett
	IN -1F BOMB - NOTE CHANGED	"	"
H	AN DIM. WAS 8.5.	"	"
J	FRAME CORD. LINE DOES NOT		
	BEGIN FRAME ON ALL BOMBS		
	RELOCATING -9 ANGLE.	11-20-40	Bennett
K	CHANGED -4 TO -5 INCL.,		
	EXCEPT -7, FROM S.O. TO STA		
	PARTL. -7 TO REPAIR S.O.		
	OMITTED SQUARED EDGES		
	ON -5F & -13.	7-16-41	Bennett
L	ADDED STOCK-111-049		
	"PICATINNY SUPPORTER BRACKET"		
	LEFT THE DOT FRONT SUPPORTER		
	POST AC238-8 SHALL BE AN		
	ALSO ADDED STOCK-111-043		
	(1 REQ'D) TO SAY.	1/26/42	Bennett
M	-2F-3 WERE 4 MIL CORD A	12-30-42	JAMES
N	QTY 1988/894 WAS 3.	2-2-43	Bennett
O	ADDED -111-4 - 062	4-6-43	Bennett
P	PLACED -1 ADDED	8-6-43	KLINE
	Q8746-1000 WAS Q8746-K1-10		
Q	NOTE ADDED	9-6-43	KLINE
R	NOTE REVISED	11-26-43	KLINE
S	REMOVED -16 ADDED -154-155-156-157-158	8-4-44	KLINE
T	-3 .051 ALCLAD 24ST - SPEC. 41A8		
	CORRT-RESIT WAS .051 ALCLAD 24ST		
	SPEC. 41A10 CORRT'D ALLOY 24ST		
	NOTE FOR -4, -5, -6, -7, -8, -9, -10, -11, -12		
	ON STRING. STOCK 24ST CORRT WAS		
	2.8 " 41A10 STOCK 24ST CORRT'D		
	NOTE FOR -7 WAS " KE401 SPEC		
	41A10 CORRT'D HEAT TREAT 2S.53		
	CORRT WAS " KE401 SPEC		
	41A10 CORRT A. ROVE ADDED SPOT-		
	WELD — LOCATIONS "X" IN 155 SER.		
	MOVED RIVET SYMBOLS & REPLACE-		
	D WITH SPOT-WELD SYMBOLS EX-		
	CEPT IN ENDS OF SPOTWELD INSERT		
	SER. WT. CHG. REQ.	2-16-44	Bennett
U	Q8740-K8-10 WAS Q8740-K1-10		
	WT. CHG. REQ.	9-14-45	Bennett
V	RE-MOVED NOTE "MAKE -1-2-4-8-9		
	-10-11 FROM 24ST 3/4 H 2.8 ALCLAD		
	ON " REPL. WITH ADDED NOTE "(MAKE		
	-7 FROM 24ST 3/4 H 2.8 ALCLAD, BE		
	K. RAK. ANG. ADDED CARD A. REF. NOTE		
	88-45 CHG "F" ADDED -8A1, -8A1F, -8A		
	WT. CHG. REQ.	3-14-46	Bennett
W	LB REM. ADDED Q1400-10 (SEE NOTE)		
	W 1400-20 OU AC225-3, AC231-3, Q1400-		
	-185 Q1401-20 Q1401-185, 21401-20		
	NOTE ON FACE RE-PLACED CALLOUT AC238-		
	3 WITH NOTE Q1400-185 (2) 1400-20, OR		
	AC225-3 " REPLACED CALLOUT AC225-8		
	WITH NOTE Q1400-20, OR AC225-8"	9-30-47	KOOISTRA
	NO WT CHG		



INCORPORATED BUREAU CHANGE #14 (ALL SHIPS)

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
C	REVISED	5-27-42	

THIS EDGE OF -2 TO TRUE W/ TOP EDGE OF SHEETS IN SEAM SPLICE

AN 525-06 BRAZIER HD ON OUTSIDE EDGE OUT THRU CUTTING ℄

TAB 0.53

FORWARD

STA 91 MAX

(3) 10 AN 525-10 R9 FLUSH HEAD RIVETS (FAY) W/ 2.5 MM MIN SHEAR STRENGTH PER RIVET SPEC 47A16 COND 'F'

(4) 5/16 x .125 RD FILLET SHT 24ST SPACED SPEC 47A16 COND 'F' AT SHEAR

STRINGER

28B1914 28B1914-1 OPP HAND

(2) .051 RD FILLET SHT (2.0 ST) SPEC 47A16 COND 'F' AT SHEAR

28B1918

28B1918-1 AND -2

28B1918 AND -2

CUT TRIM STRINGER TO CLEAR SUPERSTRUCTURE FLANGE AT ℄

AN 442-06

WATERTIGHT JOINTS

AN 442-06 6 REQ

AN 442-06 6 REQ

1/2

1/8 PKT

AN 525-06 BRAZIER HD ON OUTSIDE

RIVETS IN THIS PATCH TO BE APPROX 1" APART ALONG THESE EDGES FOR OTHER RIVETS USE HOLES ALREADY IN STRUCTURE EDGE DISTANCE ℄ AN 525-06 BRAZIER HEAD ON OUTSIDE

7 EQ SPACES

28B1919

28B1917

4 AT 8 SPACES

19

28B1916

28B1915

STA 0.33

℄ HULL

FINISH: -2B2-912-P-GRN ON PBY-1 -2B2-91: 2-PGN ON PBY-2 & FUTURE ALL OVER: GRN ON PBY-1 ALL OVER: GN ON PBY-2 & FUTURE

	PBY-5A	2885006	1
	PBY-5A	2885500	1
	PBY-6	2881000	
	PBY-5	2881000	
	PBY	2881000	
	PBY	2881000	

REPLACES

REPLACED BY

LIMIT ON DECIMALS UNLESS OTHERWISE SPECIFIED

SCALE 6" = 1'-0"

DRAWN J.Y. DATE

APPROVED DATE

CHK'D BY ACT BY

O.H.	MODEL	NEXT ASSY	REQ.	STD PARTS
REQUIREMENTS PER AIRPLANE			MAT.	JET PER AB
A/C				
NAVY	AN 960	AN 960	AN 960	AN 960
MATERIAL	SPEC	HEAT TREAT	FINISH	DRAFT CHKD ENG.

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME MISTRAL - NOSE & BOW SNUBBING POST

SIZE J DWG 28B1920

H 104

SUPPLIED & DRAWING CLASSIFICATION ALTERATION			DATE	BY
LET				
E	TRACED		7-1-39	
F	ANSI-06-10 WAS ANSI-04-10		7-27-39	PER
G	ADDED 2 HOLES AT EA. END OF TRACK FOR PBY-5 SHIPTEST		10-20-39	
H	ELIMINATE EA. END FOR SHIPTEST BY AGREEMENT, ADDED PART NO. FOR 288 PROP. 288 1994-10 FOR			
	FSD250-4 ENGINEERING PURPOSES			
J	ORDERED 1 OF 288 1994-1 ANSI06-06-8, ANSI-08-8 WAS 8 REQ'D. NOW 32.			
	ANSI-06-10 WAS 28 REQ'D. NOW 32. ANSI-04-10 WAS 4 REQ'D. NOW 32.		4-28-39	
K	2 SPEC. OF -2 FROM 288 TO 288 1990 CHANGE & NOTE "CUT OFF LEG TO PRODUCE HALF ROUND SECTION" REMOVED		8-28-39	
L	ADD NOTE "DRILL #30 CL. 1/8 DIA. ± 2 DIA. -2 STOCK (RUBBER TUBING) WAS EST. REF. ANSI-06-08 NOW WAS			
M	(D) REPLACES ANSI-04-8 (ET) WT CHG NEG.		9-2-39	
	CHG NOTE -3 -1/8 DIA.			
	HYCAR -- COVERED WAS K-2 BLACK -- (50-60 SHORE)			
	-THESE-2) WT CHG NEG.		9-27-39	
N	CHG SPACE AT -3 FROM D-2 NOW D			
	NOTE "SYNTHETIC or CALLS" WAS 1			
	"HYCAR SPONGE, FABRIC COVERED"			
	NO WT. CHG.		11-2-39	

E.O. 16191

E.O. 421107

E.O.A 44293A

C-1
D-2
A
C-3
D-2

B

C

D

AN 515-06-10 (F)
AE 365-0638
0408-05-6
07008-09-185

NOTE:
ADD ADDITIONAL WASHERS IF NECESSARY AFTER TRACKS ARE ALLIGNED SO AS NOT TO CAUSE DENT IN SKIN WHEN SECURING TRACK.

288 1989 - PORT SIDE
288 1989-1 STARBD SIDE

288 1994

AN 425-04
1½ SPACING
C'SINK IN 288 1995 ONLY

288 1484 (REF)

2 R (REF)

288 1484 (REF)
288 1995
(REF) 288 1005-20
288 1993
288 1984

SECTION D-D

ANSI-06-10
AC 365-0638
07008-09-185

288 1989-1 - PORT SIDE
288 1989 - STARBD SIDE

288 1988 (REF)

ANSI-06-10
AC 365-0638

288 1994 - WINDOW ASSEM.

10½ OPENING

ANSI3-06-10
AC 365-0638
1" SPACING
SEE SECTIONS A-A & B-B

04305-04
C'SINK INSIDE
SEE SECTION C-C

ANSI-06-10
AC 365-0638

END OF 288 1991-3 & 288 1992-1

END OF 288 1991-2

4½ 4½

288 1005-6 (REF)

04305-04
1" SPACING
C'SINK INSIDE

04305-04
1" SPACING

DEVELOPED VIEW OF PORT SIDE WINDOW

288 1989
288 1984 (FOR PBY-1 "ILONS PBY-2 ONLY)
288 1984-10 & -11 FOR PBY-3 "2 ON & FUTURE

288 1991-3
288 1992-1

SECTION A-A

(A)-(T) (M) ⅜ X ⅜ A.I.D SYNTHETIC SPONGE OR EQUIV, FABRIC COVERED. MAY BE PURCHASED FROM KIRKHILL RUBBER CO. LOS ANGELES, CAL. (P.

CEMENT IN PLACE WITH BOSTIK OR EQUIV

LENGTH 19⅜"

288 1988
288 1987
04305-04
288 1991-2

SECTION C-C

288 1989-1
288 1984

288 1991-3
288 1992

SECTION B-B

288 1362

VIEW E-E

MARINE GLUE AND FABRIC BETWEEN 288 1362 AND WINDOW CHANNELS.

SECTION E-E

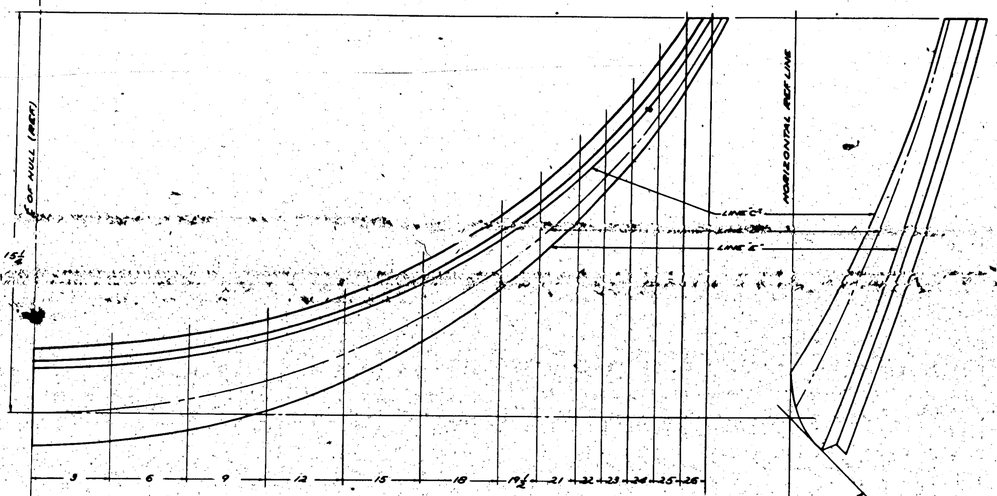
FINISH WATER TIGHT FAYING SURFACES.

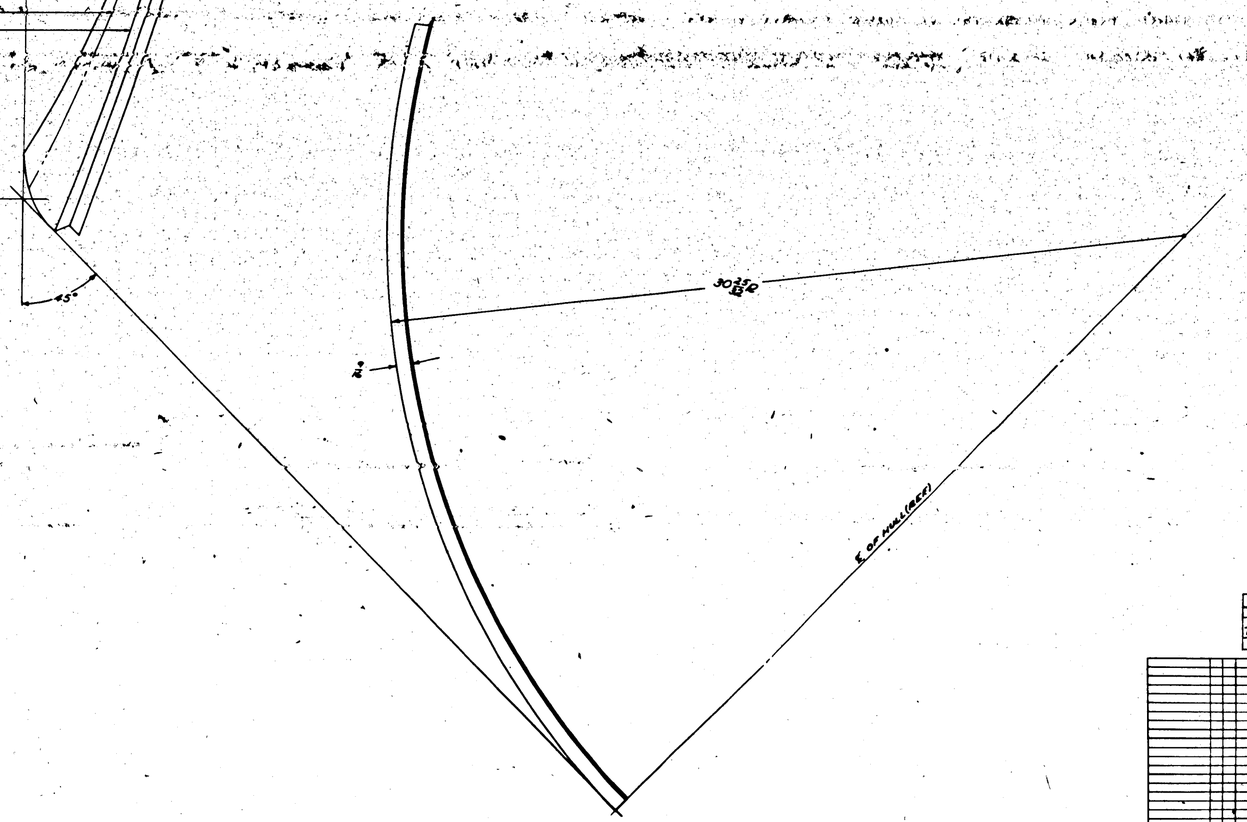
NOTE:
TRACKS MUST BE ALLIGNED SO THEY ARE PARALLEL IN ORDER TO PERMIT WINDOW TO WORK FREELY

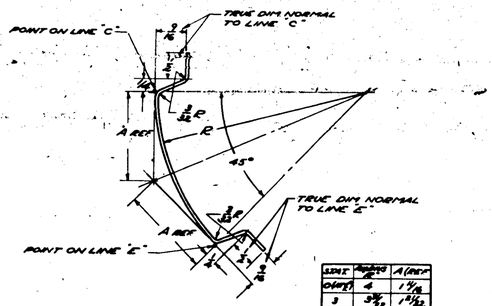
| | | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LOT	ALTERATION	DATE	INIT
B	TRACED	3-4-38	

6 1/2 R.







STATION	Radius R	A (REF)
0 (NOSE)	4	1 1/16
3	3 5/8	1 1/32
6	3 1/32	1
9	3 3/32	1 7/32
12	3 3/16	1 13/32
15	3	1 9/32
18	2 7/8	1 1/32
19 1/2	2 3/4	1
21	2 3/16	15/16
22	2 1/32	7/8
23	1 29/32	13/16
24	1 25/32	3/4
25	1 3/4	23/32
26	1 5/8	11/16

FINISH CODE	
Z	ANODIC TREATMENT
P	P.C. PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

| | | |

LET	ALTERATION	DATE	BY
E	TRACED	8-29-50	
F	ADDED NOTE 4 / REVISED PER E.O. 28B1967 FROM 1 PC. TO 2 PC. ASSY. (INT CHG REQ.)	9-6-50	
G	ADD -7 (5) REF AC36606F1032 (1), AN426DD3(2), AN426DD5(2) WAS AN426D(same) REMOVED (REF) FROM 2 (1) REQ'D	3-19-51	
H	ON FACE OF DWG. INSIDE A-A ADDED NOTE (1) EQUIVALENT SUBSTITUTE ALLOWED. ADDED IN -3 28B2224-3 REQ'D. (QUALITY WAS A REQ) WT. CHG. NOTE	5-25-51	
J	AC36606F1032 WAS AC36606F1032 NOTE "CT3K HEAD IN -7 PLATE" WAS "CT3W HEAD IN PLATE" ITEM 1 REQ.	6-18-51	

ED "A32161"

-7 DETAIL
FULL SCALE

VIEW E-E

USE 28F1995R FOR COMPT. "2."

NOTE:- MAINTAIN FLAT SPACE OF 1" DIA. AT LOCATION OF EACH FASTENER.

SECTION C-C
FULL SIZE

SECTION B-B
FULL SIZE

NOTE 1
ANCHOR NUTS & STANLEY FASTENERS ARE TO BE FINISHED AS PER SPEC. ZP-88-006 & /02.28 :-
ANCHOR NUTS (STEEL) AND STANLEY FASTENERS. APPLY 1 BRUSH COAT OF ZINC CHROMATE PRIMER TO THE CONTACTING SURFACE OF THE NUT OR FASTENER. APPLY 2 COATS OF PRIMER TO THE SUPPORTING SURFACE. ASSEMBLE WITH ZINC CHROMATE PASTE IN THE JOINT SUCH THAT EXCESS MATERIAL IS SQUEEZED OUT AT ALL BOUNDARIES. REMOVE THE EXCESS MATERIAL IN SUCH MANNER AS TO FORM A FILLET.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-77 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

SECTION A-A
FULL SIZE

22Q035 STANLEY FASTENER

SECTION D-D
FULL SIZE

FINISH: Z-P BEFORE ATTACHING FASTENERS 22Q035 & 28F1496 TO ALL COMPLETE ASSEMBLIES.

H 107

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
E	TRACED	2-17-42	
F	4 3/16 DIM. WAS 4 3/16	2-27-42	
	1 3/8 DIM. WAS 1 1/16		
G	REMOVED REQUEST FROM PARA. 4.9.4	4-9-42	
	& 3/4 IN. ADDED NOTE TO PARA.		
	BROUGHT REQ. BLOCK UP TO DATE		

E.O. 29856

E.O. 26952

VIEW D-D

28B2224-3

(3) 1/8 x 1/2 THICK COTTON WEBBING - 0.5 TSU-HB-1.5 LOCATED UNDER EACH -3

DRILL #28 (.141) AN 509-D2-10 AN 340-D4 PEEN SCREW OVER

MAINTAIN FLAT SPACE OF 1" DIA. ON FLOOR AT LOCATION OF EACH FASTENER

AN 442-D4

(4)

FORWARD

CENTER -4 BETWEEN CORRUG.

11 CORRUGATIONS - 1 13/64 PITCH (APPROX.)

SECTION B-B

SECTION A-A

DRILL #28 (.141) C'S'K TO DEPTH OF .063

DETAIL OF -3

MATERIAL: 3/4 SHEET PHENOLIC MATERIAL LAMINATED SPEC. 17-25 TYPE ARE

DRILL 1/8 - 4 HOLES

AN 442-D2 RIVET

220035 STANLEY FASTENER

SECTION C-C

(G) NOTE:

ANCHOR NUTS & STANLEY FASTENERS ARE TO BE FINISHED AS PER SPEC. ZF-28-004 "102.28

SPEC. ZF-28-004 "102.48 ANCHOR NUTS (STEEL) & STANLEY FASTENERS. APPLY 1 BRUSH COAT OF ZINC CHROMATE PRIMER TO THE CONTACTING SURFACES OF THE NUT OR FASTENER. APPLY 2 COATS OF PRIMER TO THE SUPPORTING SURFACE. ASSEMBLE WITH ZINC CHROMATE PASTE IN THE JOINT SUCH THAT EXCESS MATERIAL IS SQUEEZED OUT AT ALL BOUNDARIES. REMOVE THE EXCESS MATERIAL IN SUCH A MANNER AS TO FORM A FILLET.

MATERIAL:-

24S AL. ALLOY EXT SPEC. 47A10 COMP. 'A' (2430) H.T. SR 53 (COND. 'T') -2

5/8 x 5/8 x 1 1/2 PLAIN ANGLE DIE "113689 SPEC. 46A9 COND. 'T' -4

FINISH:-

Z-P BEFORE ATTACHING FASTENERS 220035 & AC COMPLETE ASSEMBLY.

FINISH CODE	
Z	CHROMIC TREATMENT
P	P-23 PRIMER
A.P.	ALUMINIZED PRIMER
C	CADMIUM PLATE

SHIP "1 TO "11

SHIP "1 TO "24

SHIP "AS IS ON

PBY-5B	28B5100	1	
PBY-5	28B5100	1	
PBY-5A	28B5100	1	
PBY-5B	28B5100	1	
PBY-5	28B5100	1	
PBY-5A	28B5100	1	
PBY-5B	28B5100	1	

AN 509-D6-8
AN 442-D4
AN 340-D6
AN 960-D6-8
DIMENSION -4

220035-4
28B2224-3

-4
-3
28B2221-2

28B 2221

12" = 1'-0"

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO CALIF.	NAME	DWG NO.
	FLOOR-HULL FRONT GUNNERS	28B2221

H 108

LTR	ALTERATION	DATE	BY
D	TRACED	2-19-42	[illegible]
E	CHANGED RADIUS TO 3/32 RAD. AT [illegible]		
	[illegible]		
	REMOVED PARTIAL CUT OUT [illegible]		
	NOT A MINUS ASSY. [illegible]	4-24-42	
F	ADD -2 ASSY. [illegible]		
	[illegible]	4-6-42	
G	DIM. NOTED WAS .30 IN. [illegible]		
	[illegible]		
	NOT CAM. NEG	5-14-42	
H	DIM. T/H WAS 6.38, 6 WAS 37mm AND		
	ADDED 1.170mm RADIUS (2 PLACES)		
	NOT CAM. NEG	7-14-42	

FOR -0 ASS'Y. (6) (7) FOR -2 ASS'Y.

E.O.'s A-2870

SECTION D-D

SECTION C-C

SECTION A-A

SECTION B-B

FORWARD

NOTE:- MAKE CUT IN SAME PLACE BUT ON OPPOSITE SIDE FOR RIGHT HAND FLOOR

FOR PBY-2 & PBY-3 CORNER DIM. SEE DETAIL 19-M THIS CORNER TYPICAL OF PBY-4 & FUTURE AND ALL REPLACEMENT PARTS.

(10) (1-2 ASS'Y)

9 RADII AT EACH CORRUGATION

5/8 D. HOLE -2 ASS'Y. ONLY

EQUAL PITCH ON ALL CORRUGATIONS

1 1/2 PITCH

TYPICAL FLANGE

MAKE THESE RADII 3/8, EXCEPT AT CORNERS WHERE RADIUS SHOULD BE 1/4"

"15 (.180) DRILL - 22 HOLES DRILL ALL DRILLED HOLES UNTIL INSTALLATION LOCATE APPROX. AS SHOWN

3 PBY-4 & FUTURE

4 13/16 PBY-4 & FUTURE

DETAIL M-M FOR PBY-2 & PBY-3 ONLY

CUTOUT ON PBY-2 "30 ON & PBY-3 "2 ON

CUTOUT ON PBY-3 "2 ON

VIEW F-F CUTOUT ON PBY-2 "30 ON, PBY-3 "2 ON ONLY

VIEW AT E-E

MATERIAL:
-7, -6 1/8 R .040 X 84 X 35 AL. ALLOY 47A10-A
-10 K78J7.9 1/8 AL. AL. EXTR. 46A9-T

NOTE:- 2882223-SLS-CR ARE IDENTICAL EXCEPT FOR CUTOUT (SEE VIEW E-E)

ANNEALED

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
J	TRACED UP TO DATE	8-20-43	[illegible]
K	Added -4 & -5 AN Screws	8-7-43	[illegible]
L	REMOVED 25B1067 FROM PART 2-41	10-4-43	[illegible]
	& ADDED NOTE TO PIECE 5		
	DRAWING REQUIREMENT BLOCK		
	UP TO DATE		

S.O. 7017
S.O. 41488

SECTION C-C

MAINTAIN FLAT SPACE ON FLOOR OF 1" DIA AT LOCATION OF EACH FASTENER

25B2224-L

25B2224-R

12 13/16

AN442-D4

AN442-D3

AN442-D5 SPACE 18 APART STN ABOUT ℄

18½

SECTION B-B

SECTION A-A

SECTION D-D

SECTION E-E

DETAIL OF 'F'

25B1391

25 ½

52 11/16

NOTES:

④ ANCHOR NUTS & STANLEY FASTENERS ARE TO BE FINISHED AS PER SPEC. ZF-26-006 "102.26.

SPEC ZF-26-004 "102.26

ANCHOR NUTS (STEEL) & STANLEY FASTENERS. APPLY 1 BRUSH COAT OF ZINC CHROMATE PRIMER TO THE CONTACTING SURFACES OF THE NUT OR FASTENER. APPLY 2 COATS OF PRIMER TO THE SUPPORTING SURFACE. ASSEMBLE WITH ZINC CHROMATE PASTE IN THE JOINT SUCH THAT EXCESS MATERIAL IS SQUEEZED OUT AT ALL BOUNDARIES. REMOVE THE EXCESS MATERIAL IN SUCH A MANNER AS TO FORM A FILLET.

BAY BLACK ASPHALT VARNISH SCHNELL PRIME

FINISH CODE

MATERIAL:-
.040 AL. ALLOY SHT. SPEC. 47A10 COND. A (24ST)
N. T. SAE3 (COND. 'T')
-2

FINISH:-
2-P BEFORE ATTACHING FASTENERS 25B0352
2 BULKHEADS ASSEMBLY
2 BAY COMPLETE ASSEMBLY

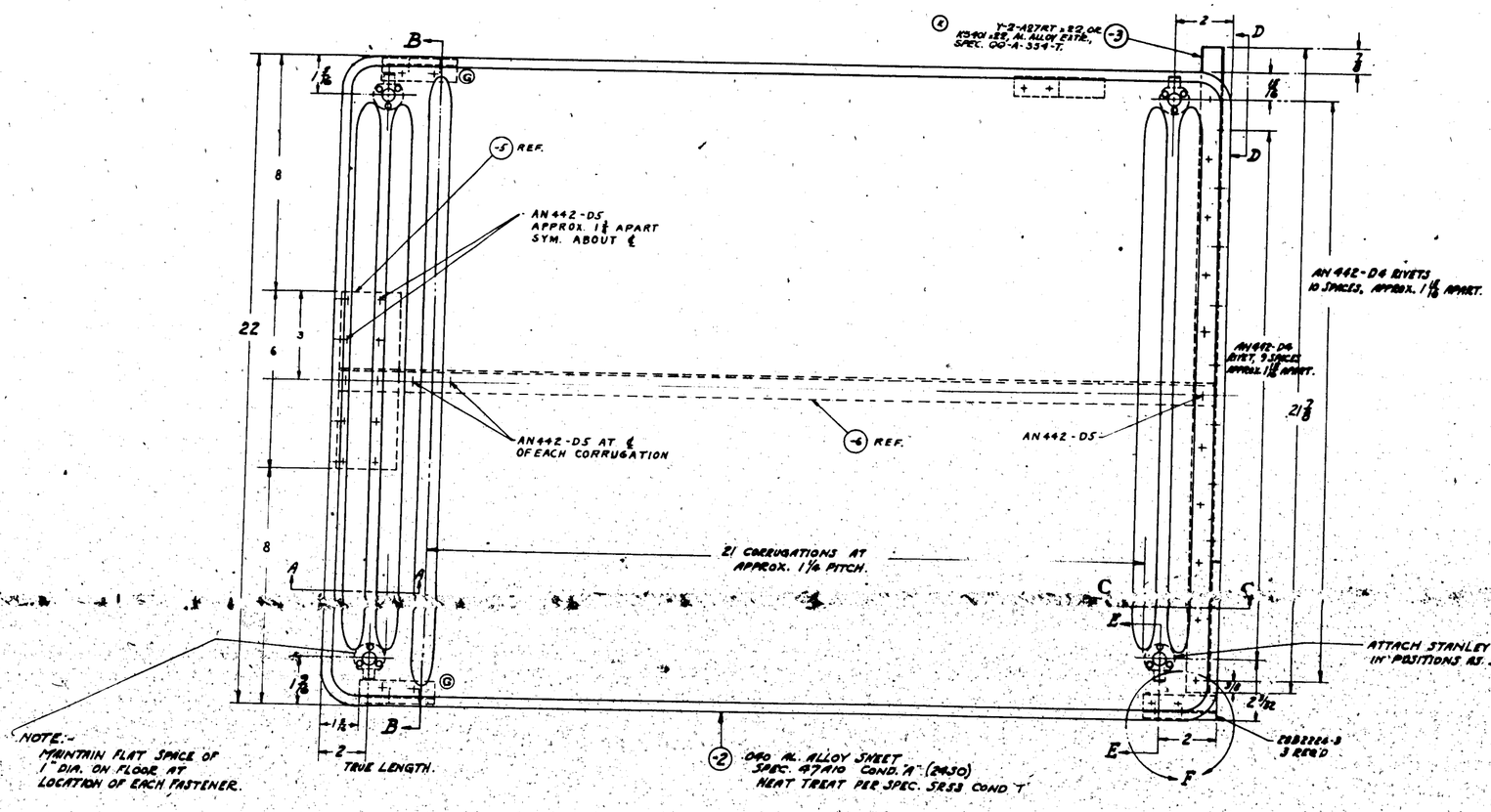
| | | |

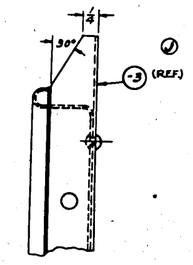
LET	ALTERATION	DATE	BY
E	TRACED UP TO DATE	7-11-44	
F	ADDED -3 & -4	7-13-44	
G	MOVED TWO 28B2224-3 CLIPS 1 7/8" AFT. BROUGHT REQ'TS PER AIRPLANE TO DATE.	7-13-44	
H	ADDED NOTE 2 "28B REMOVED 28B1861 FROM FACE E B/M. WT CHANGES:	9-23-44	
J	-3 (Y-3-A27AT422) WAS "AL. ALLOY — DIE #K-5401" -4 (Y-6-A27T # 3 1/8) WAS "AL. ALLOY — DIE #K-19033" -8 (Y-6-A17T # 30 7/8) WAS "AL ALLOY — DIE #K-5401" WT CHG. MFR. 6-8-45	MFR	
K	TO FACE, AT CALLOUT FOR -3, ADDED NOTE: "Y-6-A27AT # 2B, OR K5401 # 2B, AL. ALLOY EXTR, SPEC. QQ-A-334-T" AT CALLOUT FOR -4, ADDED "OR K14033 # 3 1/8, AL. ALLOY EXTR, SPEC. QQ-A-334-T" AT CALLOUT FOR -8, ADDED "OR K14288 # 30 7/8, AL. ALLOY EXTR, SPEC. QQ-A-334-T" NO WT. CHG.	10-15-45	MSM

L.O. 7418 EAC "1808"

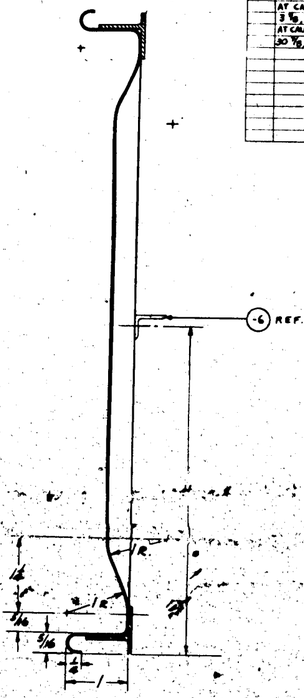
L.O. 8432 EAC "

EA "818991

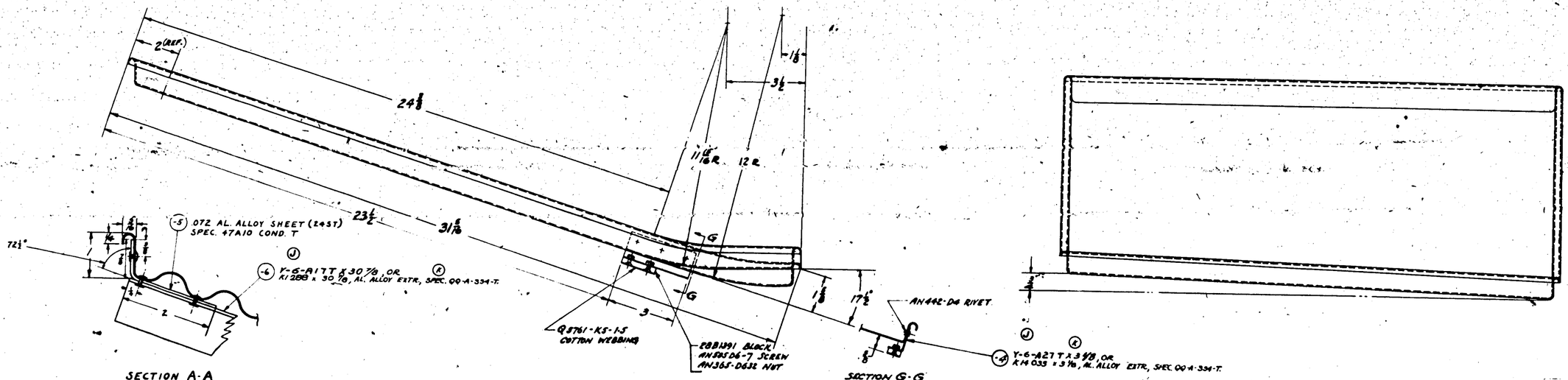




VIEW D-D

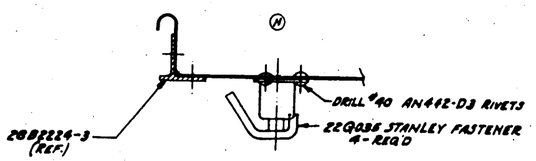


SECTION B-B

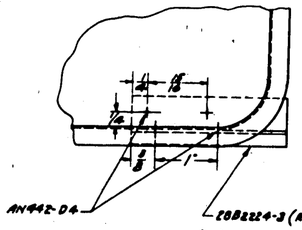


SECTION A-A

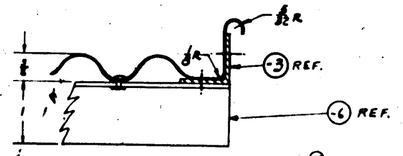
SECTION G-G



SECTION E-E



VIEW AT "F"



SECTION C-C

FINISH:- Z-P BEFORE ATTACHING FASTENERS 22Q035 AAL COMPLETE ASSEMBLY.

NOTE: (N)

1. ANCHOR NUTS & STANLEY FASTENERS ARE TO BE FINISHED AS PER SPEC. "ZF-28-006" 102 28
2. SPEC. ZF-28-006" 102 29: ANCHOR NUTS (STEEL) & STANLEY FASTENERS APPLY, BRUSH COAT OF ZINC CHROMATE PRIMER TO THE CONTACTING SURFACES OF NUT OR FASTENER. APPLY 2 COATS OF PRIMER TO THE SUPPORTING SURFACE. ASSEMBLE WITH ZINC CHROMATE PASTE IN THE JOINT SUCH THAT EXCESS MATERIAL IS SQUEEZED OUT AT ALL BOUNDARIES. REMOVE THE EXCESS MATERIAL IN SUCH A MANNER AS TO FORM A FILLET.

[redacted]

NAVY NOTED	NOTED	NOTED	NOTED		
MATERIAL	SPEC	HEAT TREAT	FINISH		

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

NAME: FLOOR - HULL - FOOD LOCKER ACCESS

SIZE J — DWG NO. 28B2291

SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATIONS	DATE	BY
C	Tolerance up to Assy	6-25-38	
D	20⅝ was 21 1/8R was 1⅞ ; 24 was 1⅜R & 4⅝ was 1⅝ ; Between Sta 1047 thru B.P. 4	11-8-40	
E	Piece of Drwg - Note Added	2-3-41	
F	Note "Material Pos -3 ------ ; 5.5 - A17ST x .20 3/16" was 3/16 x 3/16 x 1/16 Angle Die ; M-5401, Spec. 4043 Cond. T (Drwg) - 3 - 6 Wt. Chg. Rec.	6-6-41	
G	On Face to Mat'l. Note Fou. - 8 Added" or MS 16141 3/8 Al Al. Extr., Spec. QQ-A-354-T." For -6 Added" or M.S.6401 x 3/8 Al. Al. Al. Extr., Spec. QQ-A-354-T" Also W/Letter to 16-41		

E.O. 26057
E.O. A6432

E.O. # B16753

A

D

D

(2)

Q5762-B-2 REF.

14 CORRUGATIONS AT APPROX. 1-3/16" PITCH

17-3/4 FORMED

℄ OF FLOOR

(3)

(4)

9-AN442-D4 RIVETS SPACED AS SHOWN

AN442-D4 RIVETS. SPACE APPROX. AT EVERY SECOND CORRUGATION.

ATTACH STANLEY FASTENERS IN POSITION AS SHOWN. ARMSTRONG FLAT SPACE OF 1" DIA. AT EACH FASTENER.

SPEC. #7A10 COND R. ALUMINUM ALLOY SHEET .040(2S30) -E HEAT TREAT PER SPEC. 3455 (24-ST.)

MATERIAL FOR -3: Y-2-A278 T x 17⅞ A. QQ M.S.6401 x 17⅞ Al. Al. Ext'd., Spec. QQ A-354-T
MATERIAL FOR -4: Y-2-A2781 x 20¼ QQ M.S.6401 x 20¼ Al. Al. Ext'd., Spec. QQ A-354 T

Q5762-B-2 ASSEMBLY TO FLOOR WITH 1/4" LONGHT AND 6850-P RIVETS. WEBBING MUST BE WATERPROOF.

B

B

TOP

Q5762-B-2 REF

E

E

C

C

A

A

SECTION A-A.

AN605-DA-7
AN960-D6

2B8194(REL)
Q5761-KS-15

(D)

(D)

(D)

(D)

4 REF

TOP

SECTION B-B.

(E)

NOTE:-
ANCHOR NUTS & STANLEY FASTENERS ARE TO BE FINISHED AS PER SPEC. 27-128-006 "103 2B.
SPEC. 27-128-006 "103 2B.: ANCHOR NUTS (STEEL) & STANLEY FASTENERS. APPLY (1) BRUSH COAT OF ZINC CHROMATE PRIMER TO THE CONTACTING SURFACE OF THE NUT OR FASTENER. APPLY (2) COATS OF PRIMER TO THE SUPPORTING SURFACE. ASSEMBLE WITH ZINC CHROMATE PASTE IN THE JOINT SUCH THAT EXCESS MATERIAL IS SQUEEZED OUT AT ALL BOUNDARIES. REMOVE THE EXCESS MATERIAL IN SUCH A MANNER AS TO FORM A FILLET.

FINISH	
P	BASIC TREATM.
E	KIT FINISH
AP	ELANNODIZED FINISH
C	CHROMATE PLATE

AN605-DA
Q5762-B-2

STRINGER Q 48 BETWEEN STA 88.5 & STA 96.16

SECTION D-D.

VIEW E-E.

DRILL 7/16 - 4 HOLES

AN442-D5

1240056 STANLEY FASTENER

SECTION C-C.

FINISH Z-P BEFORE ATTACHING FASTENERS
1240056 P 1240058 PRIOR TO ATTACHING.
3 Ops. COMPLETE ASSEMBLY

NOTE:-
2883774 REPLACES 2883779
FOR P&V-6 & P&V-3 "I" SPARES

P&V-6A	2883774	1					
P&V-5MH	2883780	1					
P&V-5MC	2883781	1					
P&V-5MA	2883782	1					
P&V-5B	2883783	1					
P&V-5AMC	2883784	1					
P&V-5MC	2883785	1					
P&V-5MC	2883786	1					
P&V-5	2883787	1					
P&V-3	2883788	1					

AN960-D6	6						
AN960-D8	2						
AN960-D10	2						
AN960-D12	2						
AN960-D16	2						
AN960-D8-7	2						
AN960-D10-7	2						
AN960-D12-7	2						
AN960-D16-7	2						
1240056	2						
1240058	2						
2883779-3	1						
2883779-4	1						
2883779-2	1						

| | | | | | | |

INCORPORATES
PBY-5 BUREAU CHANGE No 46

LET	OUTLINE & REQUIREMENT CLASSIFICATION ALTERATION	DATE	BY
A	TRACED	9-7-38	VT/HOLT
E	CHANGED MATERIAL OF -7 FROM CRES TUBING TO AL-ALLOY TUBING & REVISED NOTE	4-6-39	BURN
F	MOVED ANF-903 WATER SEAL INSTRUCTION PLATE	4-8-41	HORSLEY
G	SECT E-E: ½ HAB 178 (NO WT CHG)	9-9-42	CROSSMAN
H	REPLACED -7 FT. ALLOY TUBING WITH -11 C.M. TUBING & ADDED NOTE: "SPLIT---TUBE" NEG WT CHG	6-24-43	WILLIAMS
J	-18 HAB -11/2 - 049 CM TUBING		
K	HAB -048 (SEC A-A) WT CHG. NEG.	3-18-44	PEARSON
L	REPLACED NOTE "1 = 3/4 REF. SECTION" WITH Y-6-A24T X		
	1/8 IN SEC E-E WT CHG NEG.	9-19-44	WILLIAMS
M	REPLACED -2 (1) WITH "1 = 3/4 U.S.A.S. SY(1)-1562) AN930-930(1) & AC501-AB-8(1) WT CHG NEG.	4-19-45	HELLER
N	REMOVED ½ FROM RAD & DIM "A" SECT. GHAB 4 DIA & DIM "B" & HAB 4 DIA & 1/16 HAB 1/16 CHAMFER STOCK SIZE OF -16 FROM 5 7/8 TO 5 3/8 WT CHG. NEG.	8-15-45	REMARKS
P	-14 RECUTS -16 DIM "BB" HAS ½ HAB & 1/16 HAB WT CHG NEG.	2-20-46	HELLER
Q	ON FACE, AT CALLOUT OF -5, ADDED NOTE "OR K1288 x 1/16 AL ALLOY EXTR. SPEC. QQ-A-354-T" NO WT CHG	12-5-46	HELLER
		10/43	MODEL

PBY-5, 5A, OA, -10 OB-8 ME, MA, MN, MC, MMC. EO. 30484 EO "A2-454 E.O. A31871

EOAA1837

EO. 6619T

EO. B18671 FOR 433 & ON

EO "B 21886

GUN CARRIAGE

C'SUK TWO ROW OF RIVETS ON BOTTOM

AN426-DS RIVETS SPACE BETWEEN LOCATING RIVETS

R&B 1328 (REF)

AN 426-DA RIVET

AN 525-DB-7 SCREW AN365-1052 NUT

R&B 4054

288 4056 CLIP

288 4047 VALVE INSTALLATION

SECURE WITH WIRE

NOTCH TO ¼ CLEARANCE BETWEEN "A" PACK & CAM THEN INSTALL AS PER 288 4047

R&B 1328 (REF)

288 1008-3 (REF)

288 4043 (REF) HANDLE IN LOCKED POSITION

VALVE IS OPEN SEAL (TUBE) DEFLATED HANDLE IN UNLOCKED POSITION

DRILL

BREAK EDGES

FORWARD

¼ AIRPLANE

5½ (REF)

ANF 903 INST PLATE (SEE R&B 1328)

288 4051 RING

AN 442-DA RIVET SPACING APPROX 4½

A

B

B

A

288 4055 CLIP

-6 ASS'Y (-5 & 288 4055) (REF)

-5 Y-6-A24T X 1½, OR K1288 x 1½ AL ALLOY EXTR. SPEC. QQ-A-354-T.

K

AN 442-DA AC 550-8-8 O. NOSE DIA 2 A.A REQ

SECTION E-E SCALE 1½"=1'0"

PLAN VIEW 3"=1'0"

AN 960-10 WASHERS

(REF)

½ THICK ARMOR PLATE BETWEEN PUMP & -18 CLAMP

-8 -18 P

-4 CLAMP-SUB-ASSY SEE DETAIL

SECTION F-F SCALE 12"=1'0"

08006-86, SPACER AN 960-010, WASHER

AN3-058 BOLT AN 365-1052 NUT MS 90-8-8 COTTER

⅝ DIA HOLE THRU 288 1007-3 THIS END ONLY

⅝ DIA HOLE THRU 288 1007-3 THIS END ONLY

-6 ASS'Y SEE SECTION E-E

HAND PUMP No A-693 O.P. MARCH MFT

½ I.D. FLEX RUBBER HOSE 6½ LONG TO MAKE -6 HOSE ASS'Y. REMOVE HOSE SUPPLIED WITH PUMP AND REPLACE WITH 3 HOSE CLAMPS. END FITTINGS FROM HOSE SUPPLIED WITH PUMP AND FASTEN TO -3 FITTINGS TO BE WELD IN PLACE BY F (2 REQ.)

(J) ½ O.D. x .049 C.M. TUBING

(E) ½ LG. TO FASTEN HOSE TO ENDS.

(H) SPLIT TUBE BY CUTTING DIAGONALLY AT 35° (APPROX) WITH REF. TO ℄ OF TUBE.

5½ APPR

SEE VIEW "C"

288 4051 (REF)

SECTION A-A 6"=1'0"

VIEW C 12"=1'0"

SECTION D-D 12"=1'0"

288 4053 RING USE GAGE MS 19178 FOR INSTALLATION

AN 442-D

288 4048

288 4058 INST

SEAL INFLATED

11½ DIA (REF) CONCENTRIC ABOUT REMOVING CIRCULAR WINDSHIELD

288 4052 GASKET STRETCH ONTO 288 4051 RING AND CEMENT IN PLACE WITH PAN AMERICAN GASKET CO. OR EQUIV

48½ DIA (REF)

SEAL DEFLATED

SECTION B-B 12"=1'0"

NOTED:-

TO OPERATE WATERTIGHT SEAL BRING REVOLVING CIRCULAR WINDSHIELD INTO STOWAGE POSITION AND LOCK BY SWINGING CAM LOCK HANDLE DOWN WARD. THEN INFLATE WATERTIGHT SEAL BY MEANS OF HAND PUMP (ABOUT 7 FULL STROKES) THEN OPERATING CAM LOCK HANDLE AUTOMATICALLY ACTIVATES OUTLET VALVE WHICH DEFLATES WATERTIGHT SEAL.

H 113

MCR 548

														-18 A	
														AN 330-8A6	1
														AC 501 AB-8	1
														ASSY. -5	1
														PUMP - 693	1
														8 1/04 - DR	A
														08006-86	1
														AN 960-10	1
														AN 365-1052	1
														288 4055	1
														288 4056	1
														288 4057	1
														288 4058	1
														288 4059	1
														288 4060	1
														288 4061	1
														288 4062	1
														288 4063	1
														288 4064	1
														288 4065	1
														288 4066	1
														288 4067	1
														288 4068	1
														288 4069	1
														288 4070	1
														288 4071	1
														288 4072	1
														288 4073	1
														288 4074	1
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														288 4076	1
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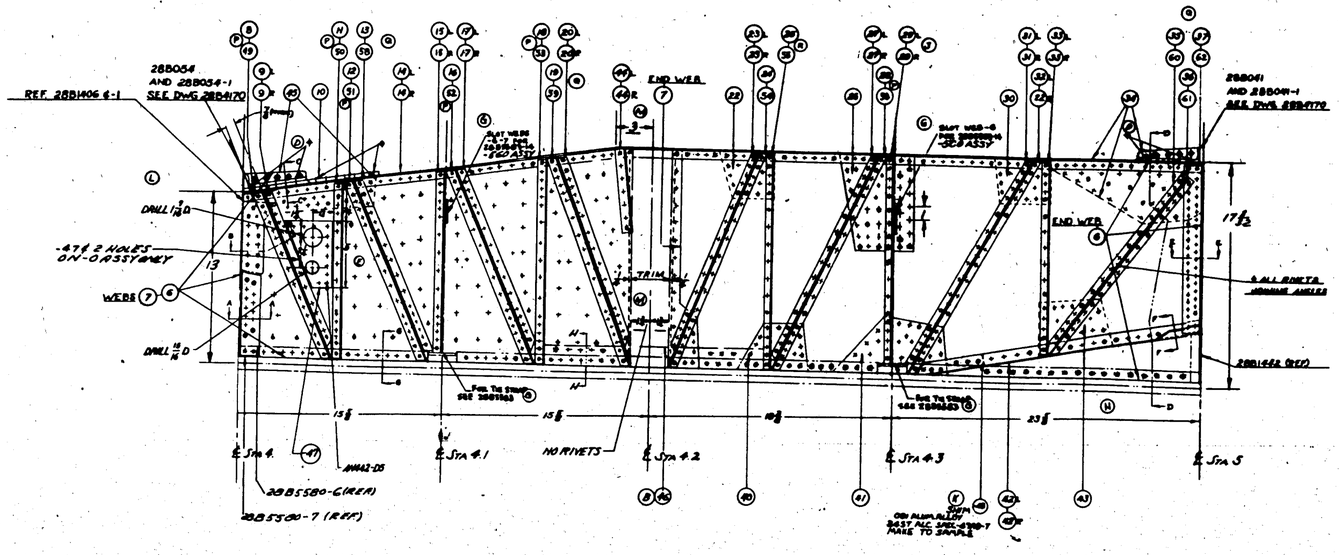
														288 4096	1
														288 4097	1
														288 4098	1
														288 4055	
														-4	1
														ASSY -4	1
														-18	2
														-5	1
														ASSY -5	1
														-6	1
														-14	1

CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF.	NAME HULL-WATERTIGHT SEAL - BOW GUN	DWG NAND J	288 4041

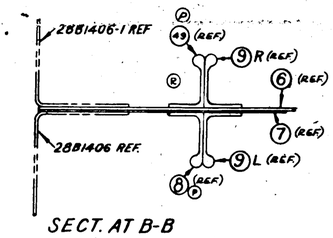
R 288 4041

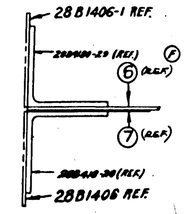


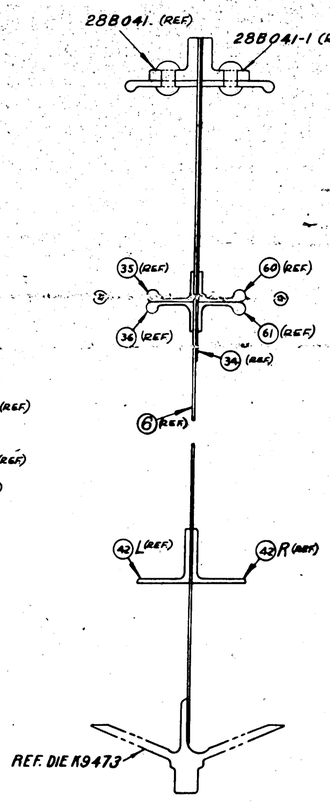
LTR	DESCRIPTION	DATE	BY
A	- 7 MAT. CHG		
B	40.000 - AA		
C	ADDED SHT. AL-14		
D	ADDED NOTE TO FOR NOTE 3		
E	ADDED -41 & -42		
F	ADDED -43 NOTE 9		
G	ADDED -44 & -45		
H	ADDED -46		

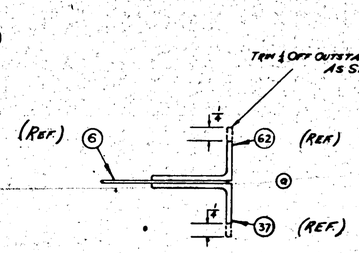
C.A. 3005
EQ 11689
EQ 10776
EQ 26357
EQ 26358
EQ 30539
EQ 11689
EQ 31654
REV-54/0161
203 AMC
V.D.N.305

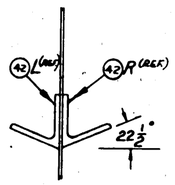
E DC 75278
PER DR.M-19,
28-Dwgs.

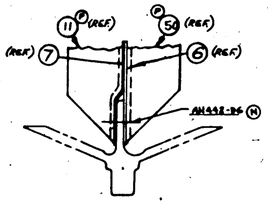


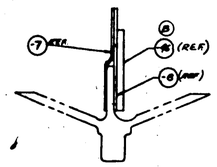












LIST OF DASH NO'S WITH EXTRUDED SECTIONS AND SHEET FROM WHICH THEY ARE MADE
ALL EXTRUSIONS ARE SPEC. 46AB COND.T EXCEPT-42, COND A

1 X 9/16 X 3/16 BUB ANGLE DIE #K1298
-8,-11,-12,-18,-49 TO 53 INCL.;-9- 15,-16,-17,- 20,-28 L&R,
-28,-35,-13,-19

1 5/8 x 1 5/8 BULB ANGLE DIE # K778
-14 L&R

98 X 9/16 X 060 BULB ANGLE DIE #K1559
-24,-25,-29,-54,-55,-56, -23,-27,-31,-32,-33 L&R
-35,-36,-60,-61,

1 1/2 X 1 1/2 PLAIN ANGLE DIE # K 11696
-37,-62

1/2 x 1/2 x 1/8 PLAIN ANGLE DIE #K5901
-44

1 X 1 1/2 X 1/4 PLAIN ANGLE DIE #K-78-F
-42

ALUM ALLOY SHEET 47A10 COND.T
.040 -7
.035 -22,-26,-30,-40,-41,-43
.051 -6
.078 -34,-45
.250 -10
.081 -46

LTR	DESCRIPTION	DATE	BY
F	ADD PAGE 6 IN. &ATC -8 WAS -21		
	-19 WAS -23, -11 WAS -11, -20		
	WAS -11R, -12 WAS -11L, -21 WAS		
	-15R, -16 WAS -16L, -22 WAS -16		
	-18 WAS -18L, -23 WAS -15R, -2		
	WAS -25L, -24 WAS -24R, -25		
	WAS -22L, -25 WAS -25R, -26		
	WAS -26L, -27 WAS -27R, -28		
	SECT. 6-6 -11 WAS -12L 6 -20		
	WAS -16R.	9-26-61	
G	-12 WAS -12L, -18 WAS -18L, -25		
	WAS -27L, -26 WAS -26L, -27		
	WAS -27L, -28 WAS -12R, -28 WAS		
	-18R, -64 WAS -25R, -61 WAS		
	-26R, & -61 WAS -27R. PER ECN	12-12-61	

Z	APPLIC. TREATMENT
P	PAINTED
ALP	ALUMINIZED PRIMED
C	CADMIUM PLATE

+ - RIVETS (SIZE INDICATED AT INTERVALS BY THE FOLLOWING HARDNESS)
- 1/16 - 5/32 - 3/16
- 1/4 - 5/16 - 3/8

ALL AL ALLOY SHEET 5 SPEC 43AM (CONDITION T) ALLOY 24-T EXCEPT AS OTHERWISE NOTED
ALL AL ALLOY EXTRUSIONS SPEC 46AB (CONDITION T) ALLOY 24-T (HEAT TREATED)
HEAT TREAT ALL CONDITION A MATERIAL PER SPEC. 6A62.
RIVETS AS CALLED FOR ON DRAWING

H-114

	NOTED	NOTED	NOTED	Z-P-2AP

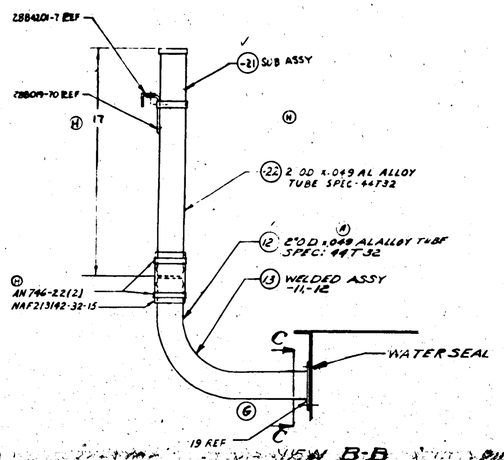
KEEL TRUSS STA 4T05 SECTIONS

J 28B4160

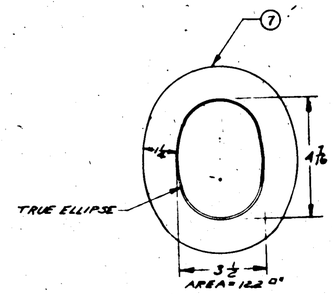
R

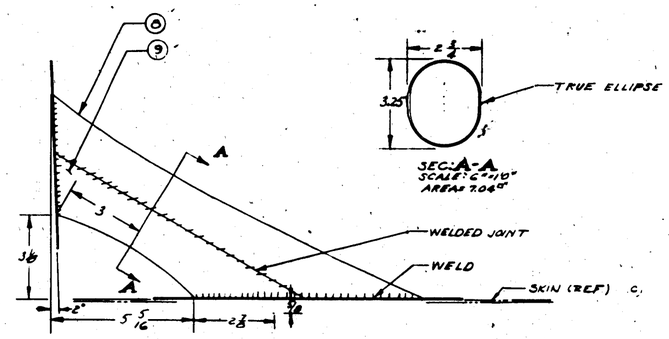
LET	ALTERATION	DATE	BY
A	ADDED -21	7-7-39	
B	TRIM CHAN IS WAS 18 -18 ADDED TO ROWS & RIV	4-9-42	
C	CHAN SECT-A SHEETS TO BE REMOVED TO BE USED AS NOTE "TO BE MUST FU-16 ADDED SHEETS IN SECT 16 ADDED 16 FLANGE AT BULKHEAD 82 ADDED -16 TO SHK. LIP & TRIM OF GARGE RIVETS	4-9-42	
D	CHANGED 18 DIM TO 21 & CHANGED NAF 27842-6 TO NAF 27842-6C	4-7-43	
E	CHGD LOCATION OF -18 & INSTALL ATTACHMENTS ADDED 288019-70 REF TO FACE OF DWG AT VIEW B-B	9-30-47	
F	CHG 94305-DA TO 94308-DS ON FACE OF DWG	10-2-48	
G	ADDED -18 WAS 288-456	3-1-52	
H	CENTER -21 SUB ASSY. & AN442-5 S REPLACED AN515-8-8(8) & AC365-D832(8) WT. CHG. NSG.	3-1-52	

E.O. 9916
E.O. 9914 B50
E.O. 9915A
E.A. 494393
EDC# 12349
E.A. 11116
E.A. 11B028

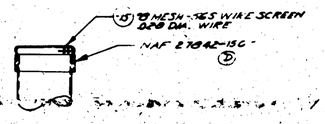


VIEW B-B
LOOKING AFT
SHOWING SE VENT
SCALE 3"=1'0"

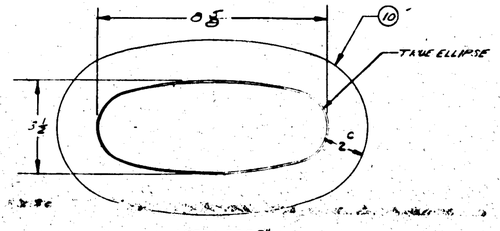




SEC. A-A
SCALE: C"=1'0"
AREA= 7.06 □"

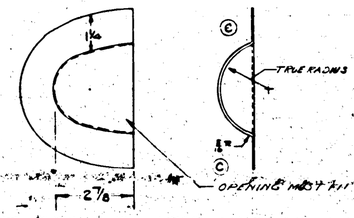


VIEW D
SHOWING METHOD
OF INSTALLING SCREEN

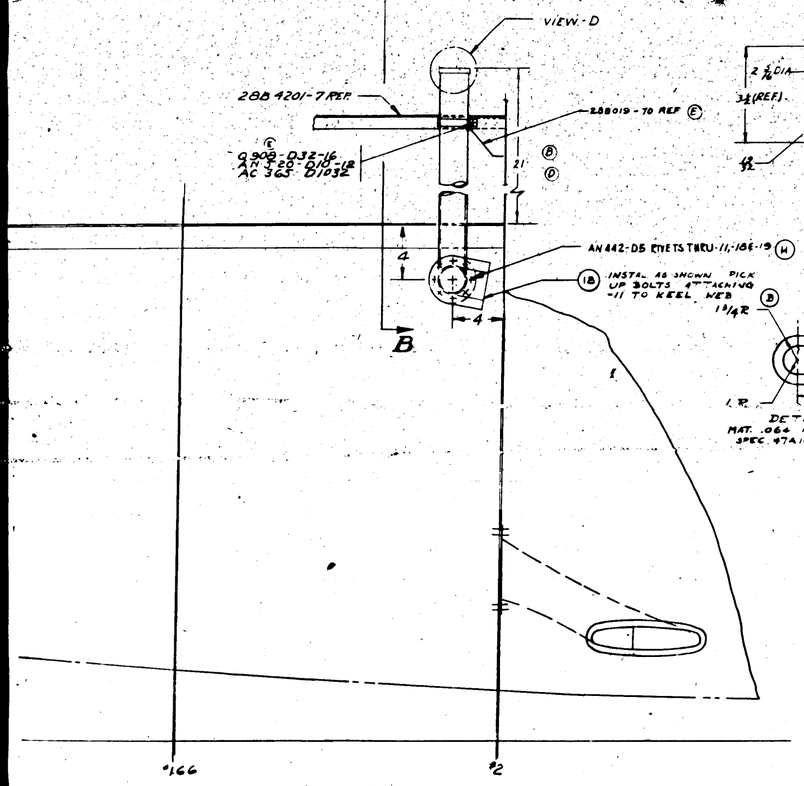


AREA= 23.80"

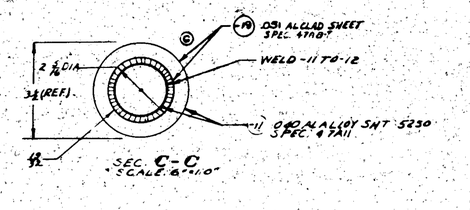
DETAIL-G ASSY
MATERIAL AS SPECIFIED
SPEC: 4 TAIL TEMPER A
SCALE: 6"=1'0"



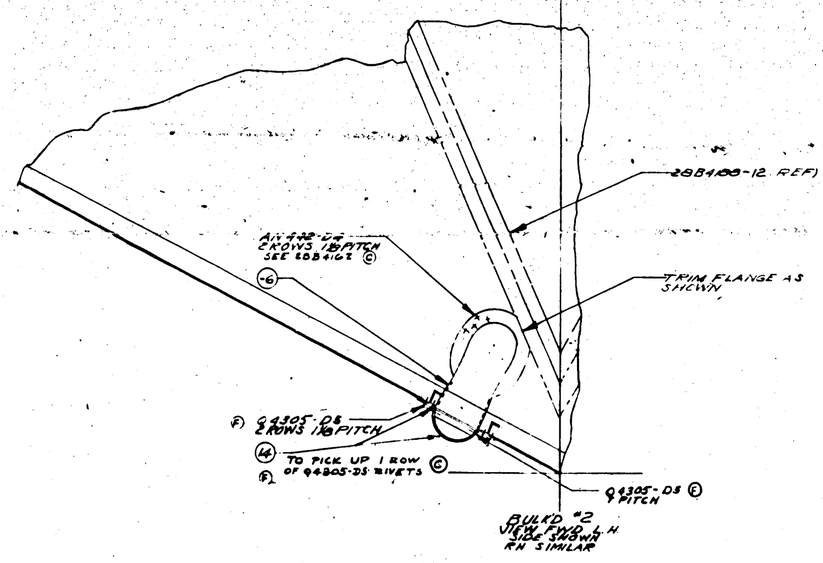
DETAIL -19
MAT .020 24SO ALCLAD
H.T. SPEC COND T
SPEC 47A8A
SCALE C"=1'0"



DETAIL -18
MAT .064 AL ALLOY SHT
SPEC 47A18 COND A 2680



SEC. C-C
SCALE: 6"=1'0"



BULK'D #2
VIEW FWD L.H.
SIDE SHOWN
R.H. SIMILAR

FINISH CODE
Z ANODIC TREATMENT
P NOT PRIMED
AP ALUMINIZED PRIMER
C CADMIUM PLATE

AN520-D10-12 -11
Q909-032-16 -11
NAS 6203-D4 -11
AC365-D1032 -11
-18 -11
-19 -11
-11 ASSY
-22
AN442-D5 2
NAS6203-D4 1
-21 ASSY
-R 1
-11 1
-12 ASSY 1
-10 1
-9 1
-8 1
-6 ASSY 1

| | | |

LET	ALTERATION	DATE	BY
A	SECT. E&F WAS ONE PIECE	5-24	[illegible]
B	ADD'D FABRICS & REMOVED [illegible]	5-24	W.S.H.
C	REMOVED PORTION OF CENTER		
	KEEL DIE [illegible]	5-24	[illegible]
D	ANGL. @ 33in	5-24	[illegible]
E	4 1/2 DIM WAS 7 3/4 @	9/47	[illegible]
	288W75 HEAT ASS'Y POS-SA,		
	288 INC & DAV-1 ADDED		
F	I.P.N. DIMS. WERE "A"	11/48	[illegible]
G	REVISED ENG'G WITH WORD CHANGE	1-5-50	[illegible]
	HEAT ANT & PANEL NOS.		
H	1 3/16 DIM. WAS 6 1/16	6-8-51	[illegible]
	7/32 R WAS 1/16 TR TO		
J	IN DETAIL "G" LENGTH OF [illegible]		
	(4 PLACES) ADDED 22.00" & 24.00"		
	[illegible] 6 1/2 DIM.	7-24-51	[illegible]
K	-16 & -17 ADDED AT AL. AL. 3656		
	WAS -891 AL. AL. 3656 HEAT TREAT	6-12-52	[illegible]
L	ADDED -10, DETAIL HH &		
	SECTION J & INT. CORR. MFG.	3-17-53	[illegible]

E.O. 10028
E.O. 10035 -
E.O. 28547
E.O. 28613
DAV-1 28-SCALE POS-SA E.O. 39110
E.O. 37162 DAV-1 POS-SA / 28-SCALE
E.O. A55293

FWD.

TRIM FLANGE TO ER DIM ON THIS SIDE ONLY

VIEW J-J

SCALE 6" = 1'0"

DETAIL HH FOR POS-SA C88476 033 ON

(C-3) KEELSON STA #1 FWD MAKE FROM SECT. M1362, DIE # K13439 SEE ANGLE CHART ON 28B015. (C-88476 #1-52)

SEE DETAIL A

(033) (-10) KEELSON STA #1 FWD. MAKE FROM SECT. M1363, DIE #K13438 SEE ANGLE CHART ON 28B015 (C-88476 # 33 & ON)

FWD.

8 3/8

DETAIL HH FORWARD END FOR POS-SA C88476 033 ON

SCALE 6"=1'-0"

DETAIL G - FULL SIZE

BULKD #2

0 — 25 6/8 — 16 6/8 — 20 — 25

No Center Keel Between Sta #1 & #2.

2 — 2.5 — See Detail G — Ref

A-2 KEELSON SECT. EM 638-DIE #K9473

A-B-5, KEELSON SECT. EM 638-DIE #K9473

SPLICE

25 — 3 — 333 — 366 — 4 — 4.1 — 4.2 — 4.3 — 5

24 — 19 6/8 — 19 6/8 — 19 6/8 — 19 6/8 — 15 6/8 — 15 6/8 — 18 6/8 — 23 6/8 — 24

4 RUBBING STRIP STA #2 TO 24 INCHES F'W'D OF STA #5. ALCOA DIE #K 9471 SPEC. 4649 CURR. IT.

28B015-5 REPLACEABLE RUBBING STRIP

NOTES- REFERENCE DRAWING 28B015 FOR KEELSON ANGLES AND CONTOUR RIVETS THROUT -4 ARE AN 442 D6 SPACED AS SHOWN - DETAIL G.

DETAIL A - FULL SIZE FOR -101-3

SECT. AT B-B - FULL SIZE

FILL WITH SUFFICIENT COTTON WICKING OR FABRIC & MARINE GLUE FOR WATER SEAL

HULL PLATING - REF.

FINISH: ALODIZE 3 1/2 PRIMER & BITUMASTIC COMPOUND WATERTIGHT FAYING SURFACES

H-116

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

KEELSON - HULL STA #0 - #5 ASSY.

J 28B4165

LET	ALTERATION	DATE	BY
A	DIM 7/16 WAS 3/8 REAMED TUBE 5/8 DIA	4-1-40	J. BAILEY
	ADD 1 .875 X 1.875 PLATE		
B	ADDED NOTES 6 & 7 PER MR 2 TWIN	7-1-40	J. BAILEY
	ADDED NOTE 8		
C	REVISED NOTE 8.	6-12-41	ANTES
D	REVISED DIMS. FROM & TO	"	"
	TUBE AND ADDED TEL. NOTE		
E	REMOVED -31 - WAS 1 REQ'D		
	-33 - ADDED NOTES 7 & 8		
	CHANGED LOCATION OF E & F		
	TAPPED HOLES	8/4/41	ANTES
F	SPLIT BUSHING -44 - SEE ABOVE	10/6/41	ANTES
	-32 - ADDED NOTE 9		
	---- CANCD.		
G	ADDED NOTE	1-28-42	ANTES
H	ADDED NOTE	2-20-42	ANTES
J	.125 DIA HOLES .740 C BORE	2-28-42	ANTES
K	1.22 DIA HOLES .72 C'BORE	2-28-42	ANTES
	.6 DIA C'BORE	2-28-42	ANTES
L	DIM CHG'D .80 TO .810		
	.80 TO .82		
	.18 TO .182		
	.15 TO .152		
	.34 TO .345		
	.06 TO .062		
M	NOTE ADDED TO DET C		
N	ADDED NOTE 8	4-29-42	ANTES
O	ADDED NOTE 9	4-29-42	ANTES
P	CHANGED SECTION B-B TO		
	SHIT 2 28B5010 DIM. NOTE		
	CHANGED: TUBE "A" TO "M"		
	V.D.	5-14-42	BARNES

LET	ALTERATION	DATE	BY
R	REVISED NOTE 6 ADDED TO 8/14		
	4 #6 x 3/16 DRIVE SCREWS.	7-16-42	ANTES
	REQ'MENTS PER AIRPLANE		
S	ADDED NOTE 6 USE EITHER GAS		
	WELDING OR ELECTRIC WELDING		
	ON MOUNT (NEG WT CHG.)	9-5-42	ANTES
T	CHG'D NOTE 7 - MAGNAFLUXED BY		
	CIRCULAR METHOD ONLY) WAS (3		
	MAGNAFLUXED) (NEG WT CHG.)	9-8-42	ANTES
U	IN SECT A-A DIM 1.850 ± .010		
	WAS 1.850 ± .005 WT CHG NEG.	9-15-42	ANTES
V	ADDED NOTE 11 NO WT CHG.	9-19-42	ANTES
W	ADDED NOTE 12 WITH ALTERNATE		
	---- CANCD.	9-29-42	ANTES
X	ADDED NOTE 13	9-29-42	ANTES
Y	6.156 & 6.109 & 5.125 WAS 6.5	10-29-42	ANTES
Z	ADDED NOTES 14 & 15	11-27-42	ANTES
	SEE LETTER 23-179-42		
AA	REPLACED NOTE 15 "SAY		
	ENG'G ---- 28B5010" & NOTE		
	"15 KELLETT ---- 28B5010		
	WITH NOTE 14" 2-AD3216-0		
	---- 28B5010" NO WT CHG.	9-24-43	ANTES
AB	IN DETAIL "C" 1/4 MINIMUM WAS		
	1/8 MINIMUM, EDGE DISTANCE,		
	CORRECTED SECT A-A TO		
	AGREE WITH 28B5010, NO WT CHG.	9-24-43	ANTES

E.O.# 18903-A
E.O.# 13383-B
E.O.# 30996
E.O. 21591
E.O. 27595
E.O. 14740
E.O. 19829
E.O. 25800
E.O. 27595
E.O. 36275
E.O. 27595

(22) LH UPPER
(23) LH LOWER
(24) RH UPPER
(25) RH LOWER
(32)

(39) GUSSET

-5 (REF)

1/8

NOTE - FLATTEN INNER SIDES OF -6, -8, -33 TUBES APPROX 1/8. NOTCH FORGINGS TO CLEAR FLATTENED TUBES APPROX 1/8. WELD FORGINGS TO RING. WELD TUBES TO RING PRODUCING SINGLE LINE OF WELDING

SECT. B-B
SCALE 12" = 1'-0"

EDGE OF BOSS MAY BE TRIMMED APPROX. 1/8 TO ALLOW ADDITIONAL CLEARANCE FOR WELDING

(E) EXTEND GUSSETS FARTHER AROUND TUBES -6, -8, -33 AS SHOWN

-4 (REF)

(K) L
30 3/4 ± 3/32 JIG
15 3/8 ± 1/32 JIG

(33) TUBE SAME AS 29B101-3 (REF)

(34) TUBE SAME AS 29B101-4 (REF)

- 5 -
- 10 -

(F) SEE DETAIL C

PLAN VIEW (-40 -41)

-30 (REF)

B — B — ℄

(L) 17 3/32 (K)

4.711 — 6.954

(D)

4.204
1.778
29 3/4 RING ℄
1.778
4.204

27 DIA BOLT CIRCLE

45°

6.954 — 4.711

60°

(P) (-43) (-44)

-36 (REF)

(L) 34 3/32 JIG

-20 RING
(-42)
(F) (-43) GUSSET

VIEW LOOKING AFT

(D) SPACING AND LOCATION OF HOLES SHALL BE HELD TO ± .005.

FRONT FACE OF MOUNTING LUGS MUST BE KEPT IN SAME PLANE WITHIN ± .005

(6) LH TUBE
(35) RH (OPPOSITE) SAME AS 29B101-5 (REF)

-36 OUTER GUSSET — L.H. SIDE ONLY

(E) FOR METHOD OF CONSTRUCTION SEE SECT. B-B.

1 1/8

SEE SECTION B-B

(-8) LH TUBE
(-7) RH (OPPOSITE)

SIDE VIEW

22 7/8

FACE OF FOUR TERMINALS MUST BE KEPT IN THE SAME PLANE WITHIN ± .010. THIS FACING OPERATION TO BE COMPLETED BEFORE 1 1/4 DIA SPOTFACE SEE DET. D

-6 (REF)

1/4 +0 -1/64

28B2032 DOWEL

PEEN END OF DOWEL ON MOUNT
REAM .156 ± .001
CSK 90° X 3/8 DIA
FRONT SIDE ONLY

1/2 (REF) 1/8

9/16 REF

(F) TO ℄ OF MOUNT RING

22 7/8 (REF)

1 7/8 DIA SPOTFACE (SEE NOTE)

MACHINE OFF 3/8 AFTER WELDING

1/16

REAM .8125 ± .0005 AFTER HEAT TREAT 28B2007-2 BUSHING

SHAPE ATTACHING TERMINALS AS SHOWN FOR CLEARANCE WITH OIL TANK CORRESPONDING PLACES ON ALL TERMINALS

-4 (REF)

(21) TERMINAL MAKE FROM 28B2002 FORGING

DETAIL D
SCALE 12" = 1'-0"

4 5/8

3/4

(24) LH UPPER
(27) LH LOWER
(28) RH UPPER
(29) RH LOWER

-6 (REF)

1/8

-4 (REF)

-6 (REF)

MACHINE OFF SHADED PORTION BEFORE WELDING

(-20) RING
(-42)
(F) (-43) GUSSET

VIEW LOOKING AFT

(D) SPACING AND LOCATION OF HOLES SHALL BE HELD TO ± .005.

FRONT FACE OF MOUNTING LUGS MUST BE KEPT IN SAME PLANE WITHIN ± .005

SIDE VIEW

22 7/8

FACE OF FOUR TERMINALS MUST BE KEPT IN THE SAME PLANE WITHIN ± .010. THIS FACING OPERATION TO BE COMPLETED BEFORE 1 1/4 DIA SPOTFACE SEE DET. D

℄ NOTE
THE FRONT FACE OF THE FRONT MOUNTING LUGS & THE REAR FACE OF THE REAR ONES MUST BE HELD PARALLEL WITHIN .018

(H) NOTE
OMIT ALUMINUM SPRAY FROM ALL MACHINED SURFACES.

(R) NOTE - ALTERNATE MATERIALS FOR -6, -7, -8, -9, -10, -33, -34, & -35 CHROME-MOLY WELDED TUBING AN-T-3 TYPE I, COND N. & CHROME-MOLY SEAMLESS TUBING AN-WW-T-850 COND N

(R) 2 x 5/16 TYPE U-PK DRIVE SCREWS REQ. ON PART 28

PART No	STOCK	MATERIAL	SPEC
28B5010			
28B2032			
28B2007-2			
-11	.050	CM STL SHT	
-12	.050	CM STL SHT	
-13	.050		
-14	.050		
-15	.050		
-16	.050		
28B5000-39	.063 x 4 1/2 x 14 3/4	CM STL SHT	NOTED
-36	.065 x 4 x 5		
-35	1/4 @ .000 x .049 x 19	CM STL TU	
-34	- x .109 x -		
-33	1/4 @ .000 x .049 x 26	CM STL TU	
-32	.063 x 2 1/2 x 12 3/4	CM STL SHT	
-30	1/2 @ .058		
-28	1/2 @ 1 1/4		
-27	1/2 @ 2 1/4		
-26	1/2 x 2 1/4		
-25	1/2 x 4 1/2		
-24	1/2 x 4 1/2		
-23	1/2 x 4 1/2		
-22	.063 x 1 x 4 1/2	CM STL SHT	
-21	NOTED		
-20	1/2 @ .072 x 108	CM STL TU	
-10	1/4 @ .049 x 28	CM STL TU	
-9	- x .109 x -		
-8	- x .109 x -		
-7	- x .109 x -		
28B5000-4	1/4 @ .049 x 19	CM STL TU	NOTED

REQUIREMENTS PER AIRPLANE			
DISPLACED			
DISPLACED BY			
STAMP PART NUMBER WHERE SHOWN			

AC	NONE	NONE	
NAVY	NOTED	NOTED	
HEAT TREAT		FINISH	

NAME MOUNT ASSEM ENGINE
CONSOLIDATED AIRCRAFT CORP San Diego, Calif.

DRAWN JBH | TRACED | STRUCT. | MAT. | APPROVED
SUPERSEDING
OPR HAND
SIZE J | DWG 28B5000

H-117

28B5000

(AA) 15. 28B5276-0, 28B5276-2, 28B5277-0 OR 28B5277-2 MAY BE USED AS ALTERNATES FOR TWO PIECES OF FORGING 28B5010.

(Z)

BOTTOM VIEW

-30 (REF)

-8-32 TAP, 2 HOLES PER MOUNT (TWO LOWER TERMINALS ONLY)

-9 TUBE

-10 TUBE

3/8 APPROX FROM EDGE OF FORGING

3 ACTUAL

1 1/4
1 3/8

(L) 15 3/8 ± 3/32 JIG

30 3/4 ± 3/32 JIG

DETAIL "C"
SCALE 12" = 1'-0"

A — A

1 1/2 DIA (REF)

3/4

CHAMF 1/16 X 45°

(M) 1/4 MINIMUM

1 3/8

28B5010 LUG

CHAMF 1/32 X 45°

(Q) .751 .001 DIA.

MACHINE OFF

FORWARD

WELD AS SHOWN

SECT. A-A
SCALE 12" = 1'-0"

NOTES

(N) 8 OMIT ALUMINUM SPRAY FROM ALL MACHINED SURFACES.

(O) 9 28B5000 PARTS MADE FOR ASSEMBLY ON 32B408 ARE TO HAVE NO FINISH UNTIL AFTER ASSEMBLY ON 32B408 ℄ THEN FINISHED PER 32B408.

(S) 10 USE EITHER GAS WELDING OR ELECTRIC WELDING ON MOUNT.

(V) 11. NORMALIZING AFTER ASSEM. BY ELECTRIC WELDING NOT REQ'D. IF ALL COMPONENT PARTS INCLUDING 28B5010 & 28B2002 ARE NORMALIZED PRIOR TO ASSEM.

12. EXTREME CARE SHOULD BE EXERCIZED IN THE WELDING OPERATION ON FORGINGS OF HIGH-CARBON CONTENT IN ORDER TO ELIMINATE CRACKING.

(X) 13. IN HEATING TO STRAIGHTEN THE WELDED ASSY, IT IS PERMISSABLE TO HEAT TO A TEMPERATURE NOT TO EXCEED 1200° F. FOR A PERIOD NOT TO EXCEED ONE MINUTE, WITHOUT NORMALIZING AFTER ASSY. IF EITHER THE TEMPERATURE OR TIME LIMIT IS EXCEEDED, THE ASSY MUST BE NORMALIZED.

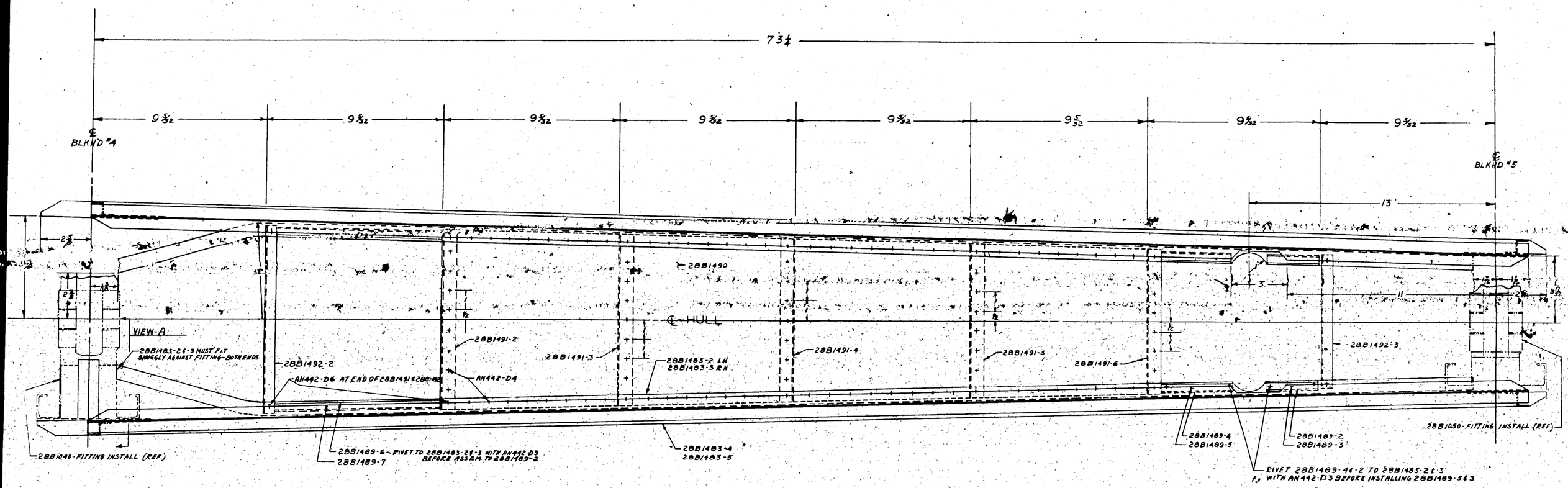
DO NOT HEAT TREAT THIS MOUNT FOR B-24A UNTIL PARTS ON 32B408 HAVE BEEN INCORPORATED.

—NOTES—

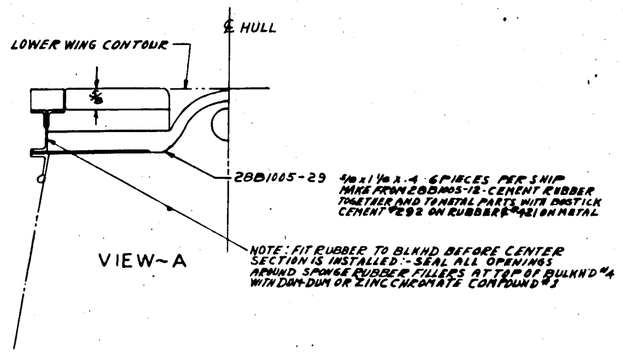
1. ALL TUBES ARE C.M. STEEL SPEC. 57-180-2 (ARMY). SPEC. 44T18 (NAVY)
2. ALL SHEET STOCK OF MOUNT WELD ASSEMBLY IS C.M. STEEL SPEC. 47B14 (NAVY). SPEC. 57-136-6 (ARMY)
3. ALL TUBES MUST BE COMPLETELY SEALED, WITH #2 1/2 U-PK DRIVE SCREWS
4. MOUNT IS TO BE COOLED BY ACCELERATED AIR COOLING AFTER NORMALIZING. (MINIMUM TENSILE STRENGTH IS TO BE 35,000 #/D.
5. -6 TO -10 INCL., -20 TO -29 INCL & -32, SAME AS CORRESPONDING DASH NO'S ON 29B101, EXCEPT AS NOTED.

(C) (G) 6 FINISH (28B5010 ONLY) SANDBLAST. METAL SPRAY WITH ALUM. P-AL OUTSIDE, PARAL. INSIDE.

(G) 7 MAGNAFLUX EACH WELDED SUBASSEMBLY BEFORE MAJOR ASSEMBLY IS MADE. COMPLETED WELDED ASSEMBLY MAGNAFLUXED BY CIRCULAR METHOD ONLY BOTH BEFORE & AFTER HEAT TREATMENT PROCESS SPEC. = AN-QQ-M-101. LATEST REVISION



TOP VIEW



"SHEET #2 OF 2 SHEETS"

NOTE: FOR BILL OF MATERIAL & SECTIONS SEE SHEET #1

H 118

3/8 AND SMALLER USE TYPE AD(A17ST) LARGER THAN 3/8 USE TYPE D(17ST)			
+ = RIVETS	(SIZE INDICATED AT INTERSECTION OR BY THE FOLLOWING LEADERS)		
✦ = 1/8	✦ = 5/32	✳ = 3/16	
⊕ = 1/4	⊕ = 5/16	⊕ = 3/8	

SCALE	1/32	0°-0' 0" / 2°-0' 0"	
MATERIAL	NOTED	NOTED	WOOD
FINISH	NOTED	NOTED	
NAME	SUPERSTRUCTURE INST ~ HULL		
CONTRACTOR	CONSOLIDATED AIRCRAFT CORP.		
SIZE	J	28B5005	
SHEET	#2		

LET	ALTERATION	DATE	BY
A	ADDED DWG. 44 & 45 TO LIST	3-29-45	[illegible]
B	ADDED DWG. 46 TO LIST	-	-
C	ADDED SHT. E-6 TO DWG. 45	-	-
D	CHGD. 04305-04 TO 04305-05 STL.	-	-
E	CHGD. 24-4 WAS AN442-4	-	-
F	ADDED 28 & 29 TO DWG. 46	-	-
G	CHGD. 28 & 29 TO 30 & 31	-	-
H	ADDED 28 & 29 TO DWG. 46	-	-
I	ADDED 32 & 33 TO DWG. 46	-	-
J	ADDED 34 & 35 TO DWG. 46	-	-
K	ADDED 36 & 37 TO DWG. 46	-	-
L	ADDED 38 TO DWG. 46	-	-
M	ADDED SECTION G-G	-	-
N	CHANGED SLOPE OF -31 FR.	-	-
O	CHGD. 24-4 WAS AN442-4	-	-
P	CHGD. 24-4 TO 24-5	-	-
Q	ADDED 42 & 43 TO DWG. 46	-	-
R	ADDED SECTION O-O	-	-
S	CHGD. TO SEALANT	-	-
	WT. CHG. REQ.	-	-

LET	ALTERATION	DATE	BY
T	REMOVED FLANGE-1 FROM 1/16 REC. 288-46		
U	IN B/M -141 & -14R STOCK WAS		
V	IN B/M -11 WAS REQUIRES EITR 4448 COND A, -41A WAS K6240 EITR 4448 COND T -12 WAS K6240111 EITR 4448 COND T, -13 WAS K1182111 EITR 4448 COND T, -13A WAS K6240118 EITR 4448 COND T, -14 WAS K6240116 EITR 4448 COND A, -14A WAS K6240118 EITR 4448 COND A -35 WAS K6240116 EITR 4448 COND T, -37 WAS K6240114 EITR 4448 COND T -38 WAS K6240112 EITR 4448 COND T		

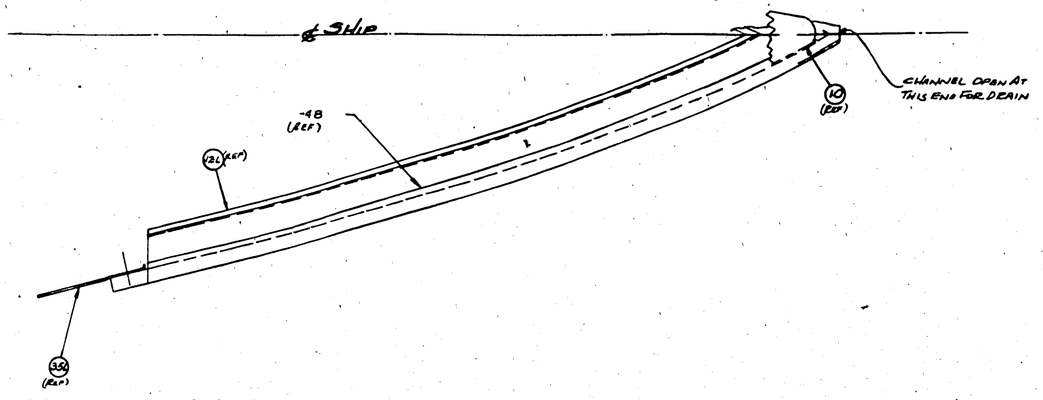
BA1121A

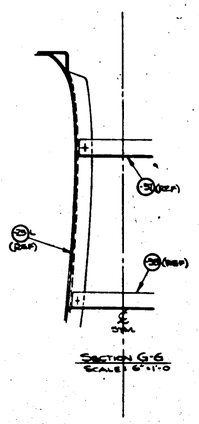
S.O. 17982
E.O. 19834
E.O. 22216
E.O. 24828
E.O. 25217
E.O. 25464

E.O. 25758
E.O. 26102
E.O. 26092
E.O. 26513

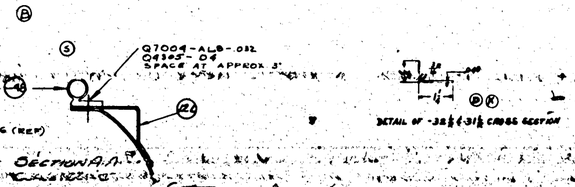
E.O. 26876
PDY-5

E.O. 26878
PBY-5 PRT 3A
OK 10-28-JAN CN-CMAPR



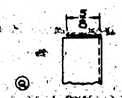


SECTION G-G
SCALE 6"=1'-0

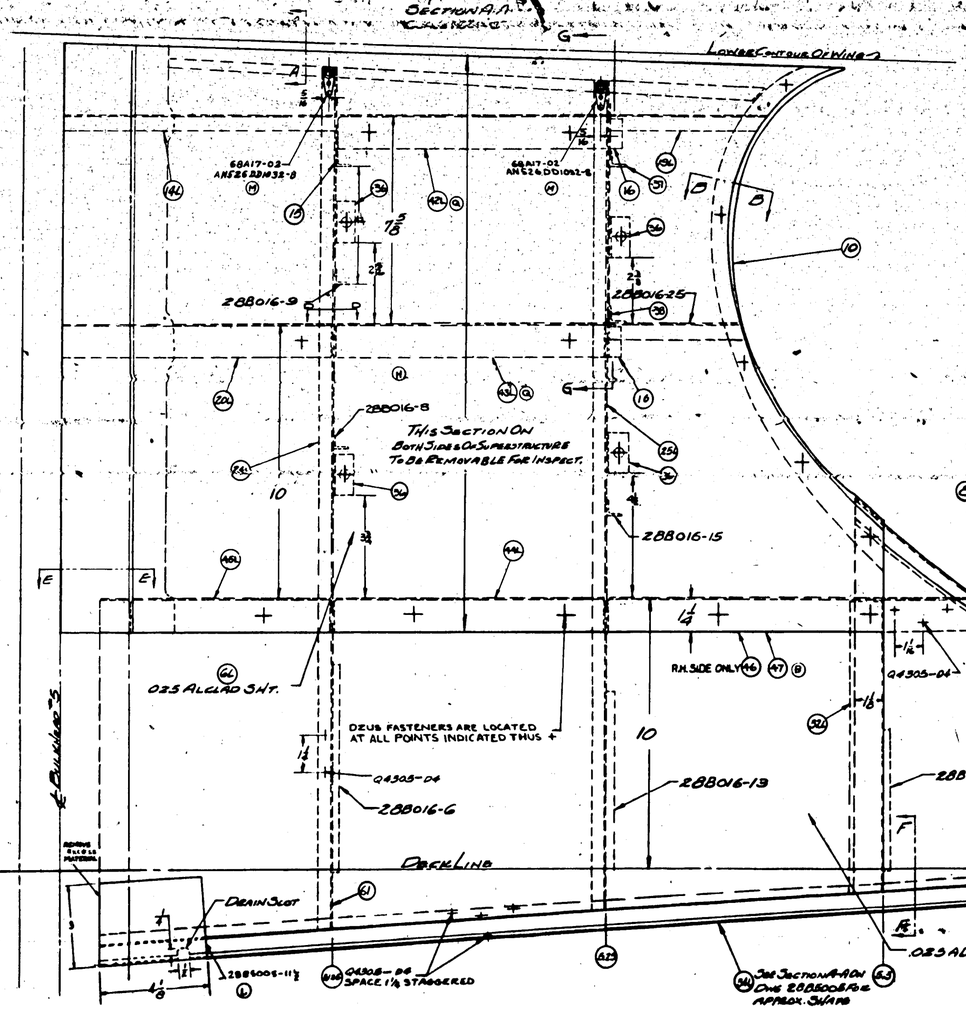


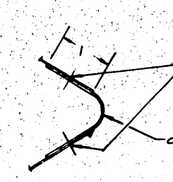
SECTION A-A

DETAIL OF -32 1/2 X 3 1/2 X 1/16 CROSS SECTION

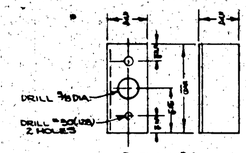


TYPICAL FOR -4 E 1/2 -, -43 -, -44 & -44 A STRUCTURAL M



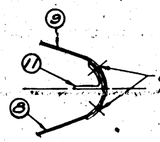


SECTION B-B
SCALE 12"=1'-0"



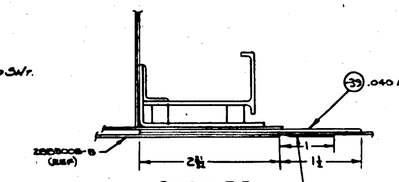
DETAIL - 36
SCALE 12"=1'-0"

SECTION F-F
SCALE 6"=1'-0"



SECTION C-C
SCALE 12"=1'-0"

NOTE -
PARTS ON THIS DWG. WHICH HAVE NOT BEEN DETAILED ARE IDENTICAL TO CORRESPONDING PARTS ON DWG. 288016



FINISH CODE	
A	ANODIC TREATMENT
P	PAINTED
AP	ALUMINIZED PRIMER
C	CHROMIUM PLATE

GP - GREEN PRIMER

DZUS FASTENER CO., INC.

AT FASTENER	ST. STEEL		
B100 SPRING			
#8 GROMMET			
ANDE-2024-8			
68A17-02			
G7004-ALB-032			
G4305-04-5			
G4305-04			
AN481-04			
AN481-5			
288500S-11R			
288500S-11L			
-12			
288016-61			
288046-21			
-21			
-22			
-23			
-24			
-25			
-26			
-27			
-28			
ANDE-2024-4			
-40R 04305-06 STA	ALC SHT	4TABCOMM	
-40L 04305-06 STA	ALC SHT	4TABCOMM	
-43R 04305-06 STA	ALC SHT	4TABCOMM	
-43L 04305-06 STA	ALC SHT	4TABCOMM	
-18 Y2A12T4-418			
-37 Y2A12T4-418			
-36 Y2A12T-1.75			
-32R 04305-06	ALC SHT	4TABCOMM	
-32L " "	"	"	
-33R 04305-06	ALC SHT	4TABCOMM	
-33L " "	"	"	
-34R 04305-06	ALC SHT	4TABCOMM	
-34L " "	"	"	
-45R Y6-A3BY611-6	ALC SHT	4TABCOMM	
-45L Y6-A3BY611-6	"	"	
-46R Y6-A3BY610-6	ALC SHT	4TABCOMM	
-46L Y6-A3BY610-6	"	"	
-12A Y2A12T-437			
-13A Y2A12T-437			
-14A Y2A12T-430			
-14L Y2A12T-430			
-45R Y6-A3BY611-6	ALC SHT	4TABCOMM	
-45L Y6-A3BY611-6	"	"	
-12R Y6-A3BY611	ALC SHT	4TABCOMM	
-12L Y6-A3BY611	"	"	
-13R Y2A12T-418			
-13L Y2A12T-418			
-14R Y6-A3BY611-8	ALC SHT	4TABCOMM	
-14L Y6-A3BY611-8	"	"	
-10 Y2A12T-410			
-11 Y2A12T-410			
-12R 04305-06 SS	ALC SHT	4TABCOMM	
-12L 04305-06 SS	ALC SHT	4TABCOMM	
-11 Y2A12T-426			
-10 04305-06 SS	ALC SHT	4TABCOMM	
-9 04305-06 SS	ALC SHT	4TABCOMM	
-8 04305-06 SS	ALC SHT	4TABCOMM	
-7R 04305-06 SS	ALC SHT	4TABCOMM	
-7L 04305-06 SS	ALC SHT	4TABCOMM	
-6R 04305-06 SS	ALC SHT	4TABCOMM	
-6L 04305-06 SS	ALC SHT	4TABCOMM	

PART NO.	STOCK	MATERIAL	SPEC	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
			PARTS LIST FOR ASSY			-2	-3	-4	-5

PDY-5	288-4000
PRT-3B	288-4500
68-52MH	288-5500
28-5MS	288-6000
28-5MA	288-6500
28-5MR	288-7000
28-5MC	288-7500
PDY-4A	288-8000
PDY-5	288-8500

DWG. NO.	MODEL	PART ASSY

REQUIREMENTS FOR AIRPLANE

DUPLICATE

DUPLICATE OF

NAME	FAIRING HULL SUPER-STRUCTURE REAR ASSEM.		
CONSOLIDATED AIRCRAFT CORP.		SIZE J	28B5016

H 119

E.O.C 870
E.O.A 40421
E.O.A 40089
E.O.A 83514
E.O.A 52499

LET	ALTERATION	DATE	BY
A	CHANGED A-328 AND 329 -4 TO -5	8-7-41	CLARK
B	ADDED 0 ASSY HARDWARE -16 WITH -17 & -18 WITH -19 & ADDED -18 & -19 WITH -1 & -2 WITH -18 & -19	7-25-41	CLARK
C	CHANGED -11A-16 TO -10	6-21-41	CLARK
D	ADDED NOTE, CHANGED INSTALL. NO. WAS 28B320	7-23-41	CLARK
E	REDESIGNED FAIRING -5 ASSY. - INC. -29 & -30 REPLACE -3 & -4 WITH -29 & -30 - MISC. WT. CHG. NIL	8-7-41	CLARK

LET	ALTERATION	DATE	BY

OVERLAP FOR SPOTWELD 3/8

VIEW AA

A

A

25 R

2

1 1/2

5 1/2

18 13/16 OVERALL

45 5/16 TO DATUM REF.

SPOTWELD AT APPROX 4" SPACING

(12) FOR -0 ASSY

AN366DF832 AN425-D3

38°.7'

12 3/32

NOSE

13 5/16

61 E.O.R. TO SKIN OUTER FACE

REF. 030

39283 (REF) TO HULL ℄

(10) CEMENT IN PLACE WITH BOSTIK

8 5/16

22 1/2

E STEUT - ENGAGE REF.

(12) FOR -0 ASSY

4½ APART

5 5/8

4½ APART

6 APART

AN526 DD832-8 C7006 - AL 11 - 030

6 APART

(166) 12 HOLES ON ASS'Y LOCATE TO CLEAR RIVETS IN HULL

3/8

2

1 3/8

NOTE: DRILL #19 (.166) 12 HOLES ON INSTALLATION

AN526-DD832-6

AC526DF832 AN425-D3

3 3/4

4

3

(61) (REF)

JOGGLE 3/32 R AT EDGE TO DIE OUT TO ZERO 1" IN FROM EDGE

(61) FOR -0 ASSY (REF)

PORT SIDE - LOOKING AFT.

VIEWS SHOWING DIMENSIONS FOR -2 ASSY ONLY

NOTE: CHECK THESE DIMENSIONS ON FIRST INSTALLATION BEFORE MAKING ADDITIONAL PARTS.

NOTE:-
SEE DWG 28B320 FOR FAIRING ORDINATES.

THIS DRAWING HAS BEEN RUSH RELEASED 8-3-41

C-91876 "91 ON"

H 120

PART NO.	STOCK	MATERIAL	SPEC.	LET REQ'D	LET REQ'D	LET REQ'D	LET REQ'D	LET REQ'D
	PARTS LIST FOR ASSY			-0	-2	-3	-4	-5
-15R	040 x 6 x 24	AL ALLOY	47A2 T6	1				
-15L	040 x 6 x 24				1			
-13R	040 x 10 x 14			1				
-13L	040 x 10 x 14					1		
-18R	040 x 19 x 24	AL. ALLOY	47A2 T6	1				
-18L	040 x 19 x 24				1			
-19R	040 x 18 x 16			1				
-19L	040 x 18 x 16					1		
-1	2 x 2 x 1 3/8			1				
-2	2 x 2 x 1 3/8				1			
-29	2 x 2 x 10	AL ALLOY	47A2 T6	1				
-30	2 x 2 x 8	AL ALLOY	47A2 T6		1			
-3	1/32 x 1 1/2 x 10	AL ALLOY	47A2 T6	1				
-4	1/32 x 1 1/2 x 8	AL ALLOY	47A2 T6		1			

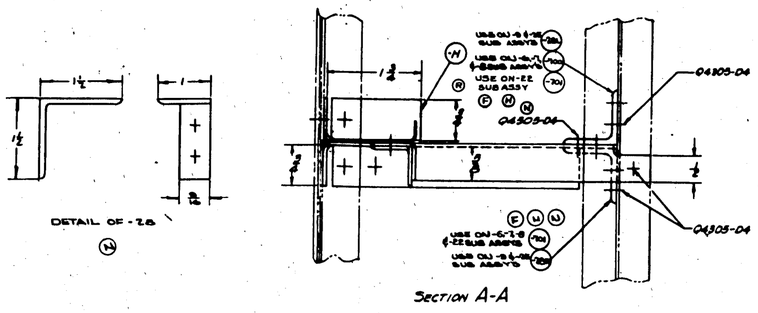
AS		8-1-41	
NEXT ASSY	NONE	2-P-AP	WEIGHT 2
NEXT HIGHER ASSY			
NAME	FAIRING - HULL - WING REAR STRUT		
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.		SIZE J	DWG. NO. 28B5027

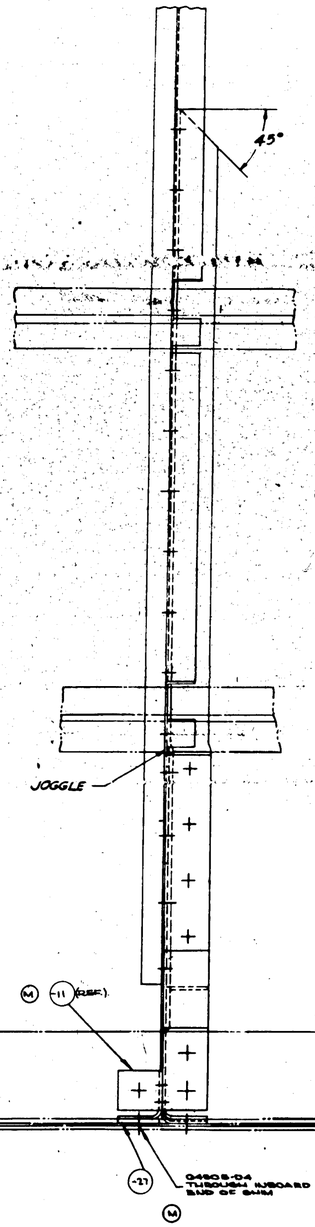
FINISH CODE

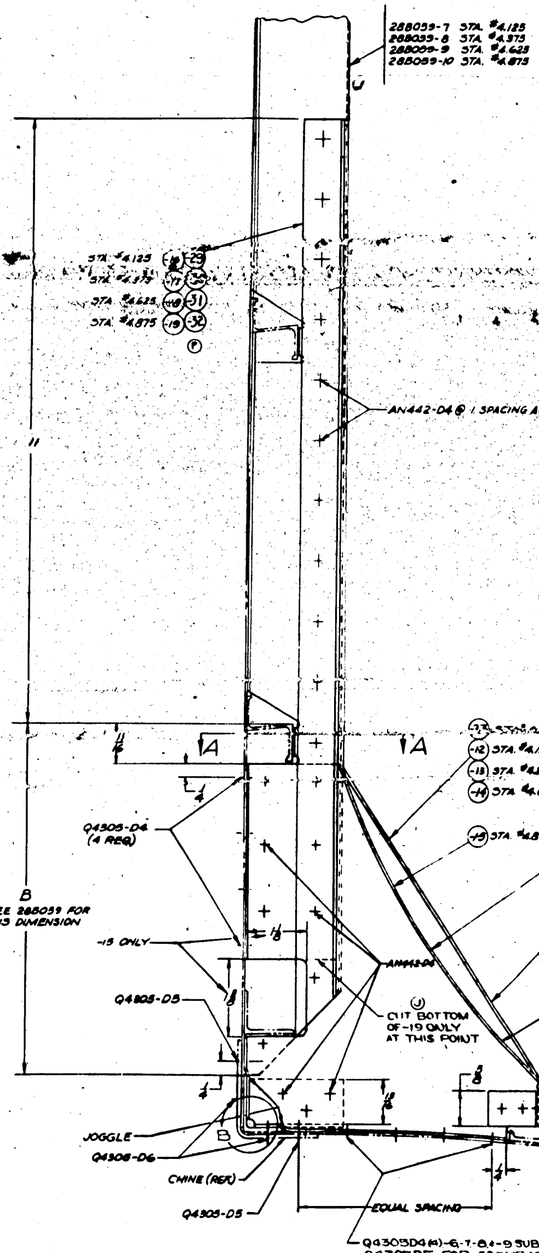
Z	
F	
AP	
C	

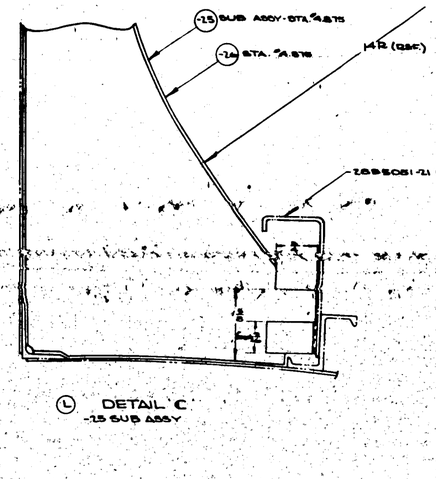
LET	ALTERATION	DATE	BY
A	PER [illegible] ADDED -4, -11, -15, -16, -17	[illegible]	[illegible]
P	ADDED -18 LABEL -20	2-MAY-72	[illegible]
R	ADDED [illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
M	-20, -21 -7008 THRU -28 (S)	[illegible]	[illegible]
N	ADD'L CHGS	[illegible]	[illegible]
J	CHG LENGTH OF -19 ALSO ADDED NOTE "QTY ---- PER"	[illegible]	[illegible]
	WT CHG. (MCA)	2-NOV-72	[illegible]
K	ADDED -22 SUB ASSY & DETAIL OF -22 SUB ASSY, REPAIRED PLANK PER ECN MA-6.	[illegible]	[illegible]
	NO WT CHG.	2-NOV-72	[illegible]
L	CHANGED -18 SUB ASSY	[illegible]	[illegible]
	WT CHG. LBS.	1-FEB-73	[illegible]
M	ADDED "11 (REF) P/N 288508-04..."	[illegible]	[illegible]
	QTY 8 -4 (REF) -11 (REF)	[illegible]	[illegible]
	PER -4, -7, -8, -9, -11 & -18 SUB ASSYS.	[illegible]	[illegible]
	WT CHG. LBS.	1-FEB-73	[illegible]
N	-18 SUB ASSY -11 LUG (REF) (USE)	[illegible]	[illegible]
	WERE -100 (-101 INSPECT)	[illegible]	[illegible]
P	PER -18 SUB ASSY, ADD'L QTY	1-FEB-73	[illegible]
	ADDED -19, -20, -21 & -22 TO REPLACE A-F 18F-18 FOR FBV-F	[illegible]	[illegible]
	A.C.A. & FAA WT. CHG. NEG	9-MAY-73	[illegible]
Q	ADDED -23 TO REPLACE -18 FOR FBV-23	[illegible]	[illegible]
R	WT. CHG. NEG	9-MAY-73	[illegible]

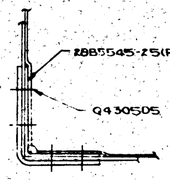
ACA 356(N)

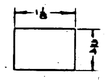












PART NO.	HALF DIA	QTY
-6	.625	
-7	.750	
-8	.875	
-9	1.000	
-10	1.125	
-11	1.250	
-12	1.375	
-13	1.500	
-14	1.625	
-15	1.750	

FINISH CODE	
Z	ANOD. TREATMENT
P	PAINT PRIMER
AP	ALODINIZED PRIMER
C	CADMIUM PLATE

NOTE:- THIS PART SHALL BE INSTALLED ON ALL FUTURE FBV-3'S & SPARES.

PART NO.	STOCK	MATERIAL	SPEC.
288032 SH 1-8			

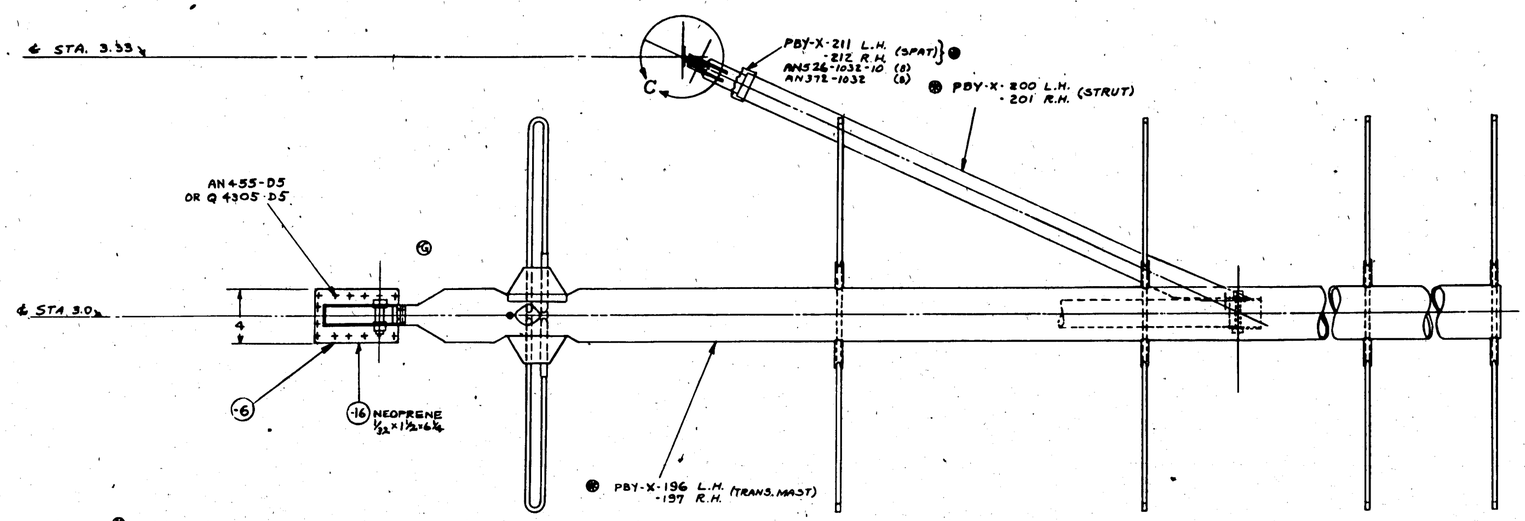
PARTS LIST PER ASSY.

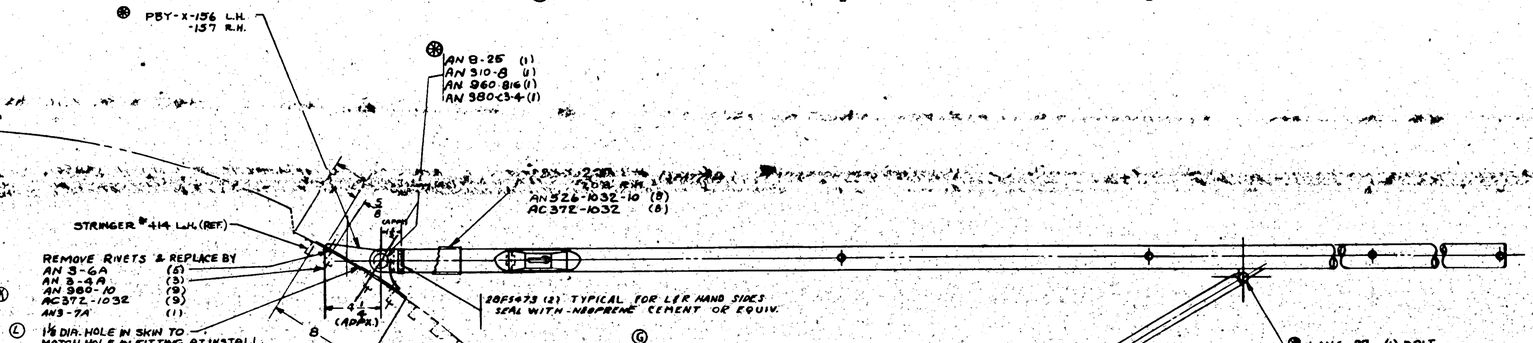
LET	-0	-2	-3	-4	-5	-6	-7	-8
QTY REQ								

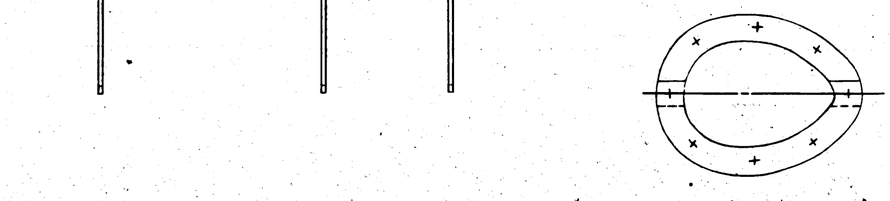
A.S.			
DWG APPD	2-MAY-72	STRUCTURES	
ISSUE TRACT	ENGINEER	WEIGHT	SCALE
NAME REINFORCEMENT-HULL SIDE STIFFENERS-STA. 4.125-4.875			
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.		SIZE J	28B5032

PHOTO CHECKED 5/28/02 Br.10

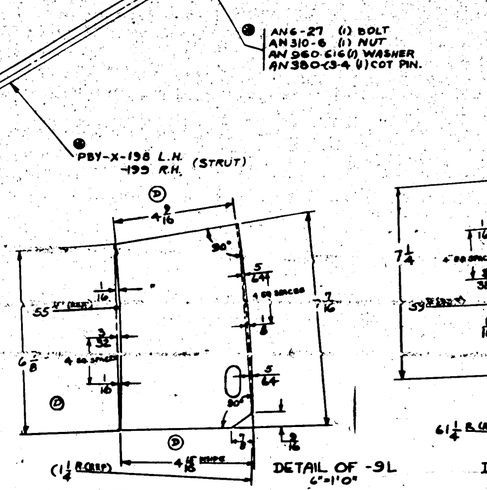
H-121

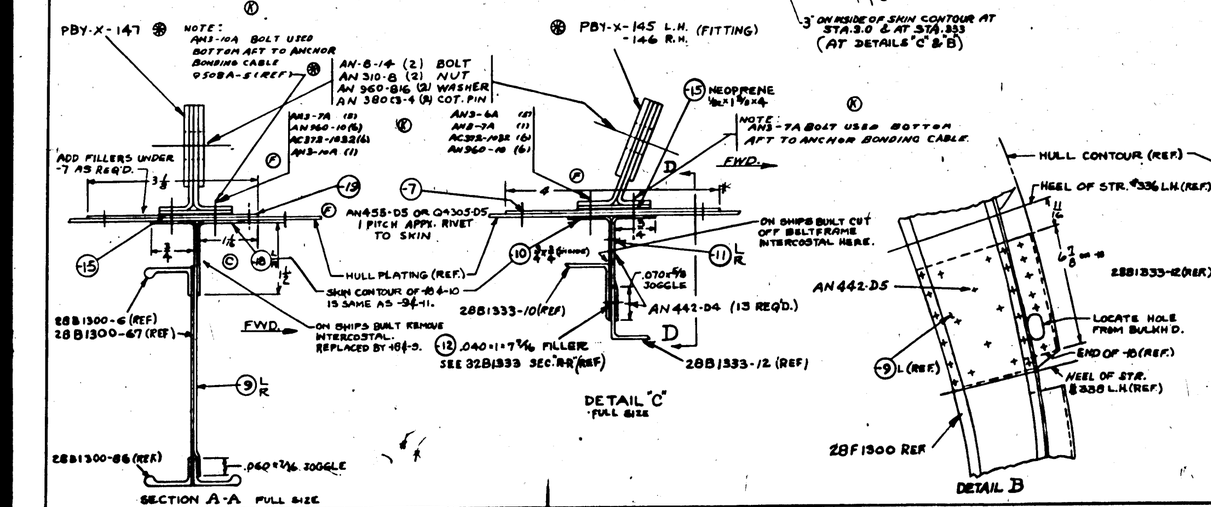






NOTES:
- (H) APPLY SEALANT INSTALLATION WATER SEAL WITH 30/70 KETONE BEES WAX MIXTURE.
- (J) PACK BEES WAX FIRMLY AROUND HULL FITTINGS & CABLE HOLES; PAINT HOT MIXTURE OF 70 PARTS BEES WAX & 30 PARTS KETONE OVER ALL JOINTS, MICARTA INSULATOR & HAIRPIN ELEMENT.
- 8. "28F7412 ELEMENT EXTENSION REQ'D ONLY (M) OCCASIONALLY TO EXTEND ANTENNA ELEMENT. WHEN FOUND NECESSARY BY SLOTTED LINE CHECK"



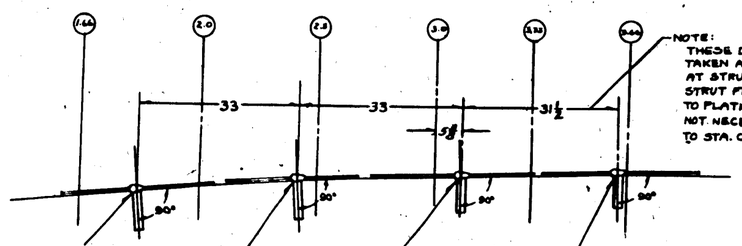


NOTES:
1. CONTRACTOR-INSTALLED ON ALL PLANES OF CONTRACT #86476 & #91876
2. ON CONTRACT #704-96 (33 PLANES) & #77713, PARTS ARE TO BE FURNISHED TO NAVY FOR SERVICE INSTALL.
3. 5/16 BEND RADII ON -8, -9, -10 -11.
4. BOND IN ACCORDANCE WITH BONDING REPORT BB6402. FINISH ALL BONDS WITH (2) COATS OF AP AND (1) COAT OF RUST PREVENTATIVE.
5. SHIFT RIVETS FROM SKIN SPLICE UNDER -7 PATCH PLATE (E)

● ITEMS MARKED WITH AN ASTERISK ARE FURNISHED BY MFG'R. OF YAGI EQUIPMENT. MAY BE PURCHASED FROM "ENGR. RESEARCH CORP" OF COLLEGE PARK, MD.

SIZE	A
HEAT TREAT	Z-P-GP
FINISH	
NAME	INSTALL-FURN: YAGI TRANSMITTER MAST
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.	
DWG NO.	28B5037

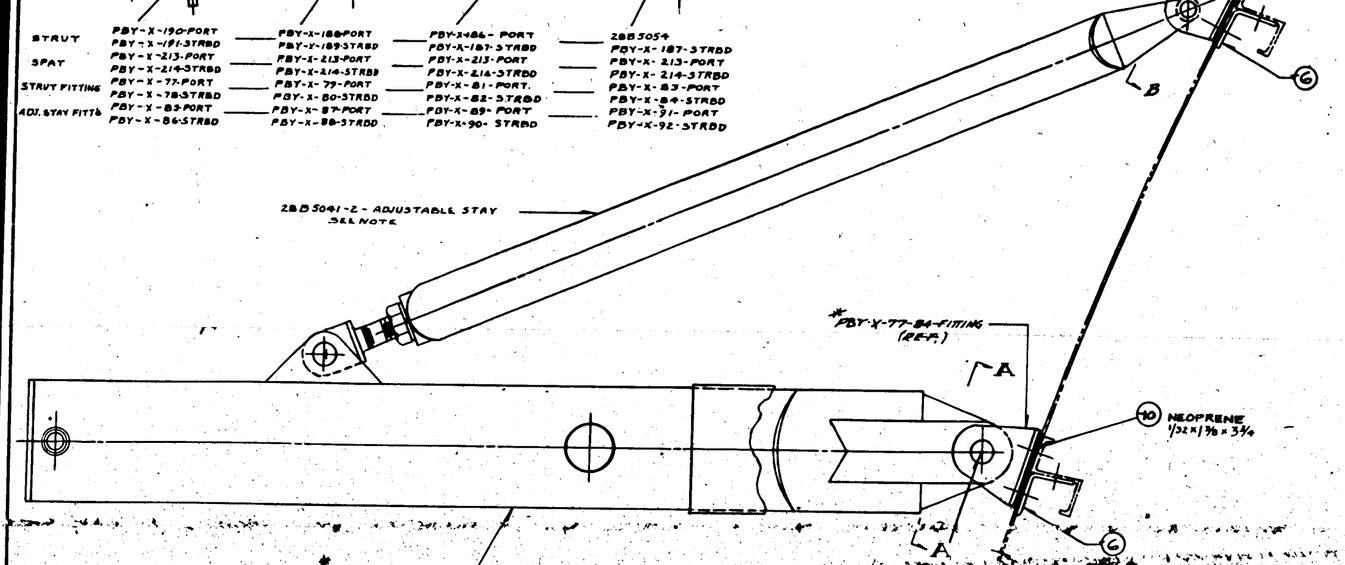
H 122



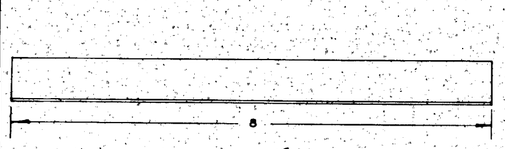
NOTE:
THESE DIMENSIONS ARE TO BE TAKEN AT HULL PLATING (NOT AT STRUT TIP). STRUT FITTINGS ATTACH NORMAL TO PLATING, HENCE STRUTS DO NOT NECESSARILY EXTEND PARALLEL TO STA. CENTERLINES IN PLAN VIEW.

STRUT	PBY-X-190-PORT PBY-X-191-STRBD	PBY-X-188-PORT PBY-X-189-STRBD	PBY-X-184-PORT PBY-X-187-STRBD	28B3054 PBY-X-187-STRBD
SPAT	PBY-X-213-PORT PBY-X-214-STRBD	PBY-X-213-PORT PBY-X-214-STRBD	PBY-X-213-PORT PBY-X-214-STRBD	PBY-X-213-PORT PBY-X-214-STRBD
STRUT FITTING	PBY-X-77-PORT PBY-X-78-STRBD	PBY-X-79-PORT PBY-X-80-STRBD	PBY-X-81-PORT. PBY-X-82-STRBD	PBY-X-83-PORT PBY-X-84-STRBD
ADJ. STAY FITTG	PBY-X-83-PORT PBY-X-86-STRBD	PBY-X-87-PORT PBY-X-88-STRBD	PBY-X-89-PORT PBY-X-90-STRBD	PBY-X-91-PORT PBY-X-92-STRBD

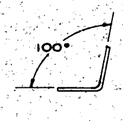
MKT	ALTERATION	DATE	BY
A	ADD 30 NAS 464 Z5 RIVETS (REF) (-1) ADDED -84 (-10 ADDED DETAIL) (-4)		
B	CORRECTED TYPE (-6) (-7 & 8)		
C	SNAP ANGLE -6 (2) TO ANGLE -6-1088 (NO WT. CHGE)		
E	CHGD REQMT TO OF -84 (NO FIGURE) (1/8 SA) TO (BOX) WT. CHG. (+1/4)		
D	ADDED NOTE #4 (NO WT. CHG.)		
F	REM. PBY-X-187-FITTING AND ADD PBY-X-187-STRBD (-10) (2-0) (REF) AN 960-10 WASHER (-4) (2-0) (REF) AN 3-5A BOLT (-4) (2-0) (REF) AN 372-1032 NUT (-4) (2-0) (REF) AN 960-10 WASHER (-4) (2-0) (REF) AN 3-5A BOLT (-4) (2-0) (REF) AN 372-1032 NUT (-4) ADDED AN 3-5A (-4)		
G	CHGD ANGLE OF -84-7 (NO WT. CHG.)		
	ON FALL 1 B.M. ADDED 28F484 TO (8). ON FACE ADDED NOTES: "TYPICAL --- SIDES" & "EQUIV." NEG. WT. CHG.		
H	ON FACE ADDED NOTE "5" NEG. WT. CHG.		
J	ON FACE AT SEC. A-A CH'D PATTERN OF AN 3-3A. NO WT. CHG.		
K	ADDED NOTE "6" (WT. CHG NEG.)		

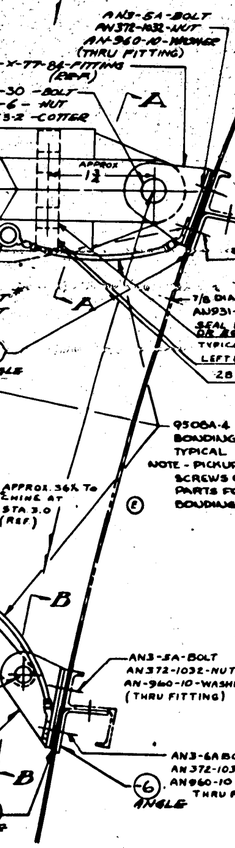


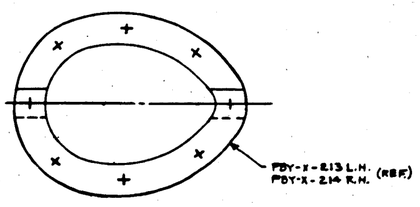
THIS INSTL'N. IS USED AT STA. 3.66 ON PORT SIDE ONLY



DETAIL - 6







DETAIL OF SPAT SHOWING APPROX. LOCATION OF SCREWS ATTACHING IT TO THE PLATING.

THIS INSTL'N. IS TYPICAL OF ALL STATIONS-EXCEPT 3.66 ON PORT SIDE

NOTES:-(CONT)

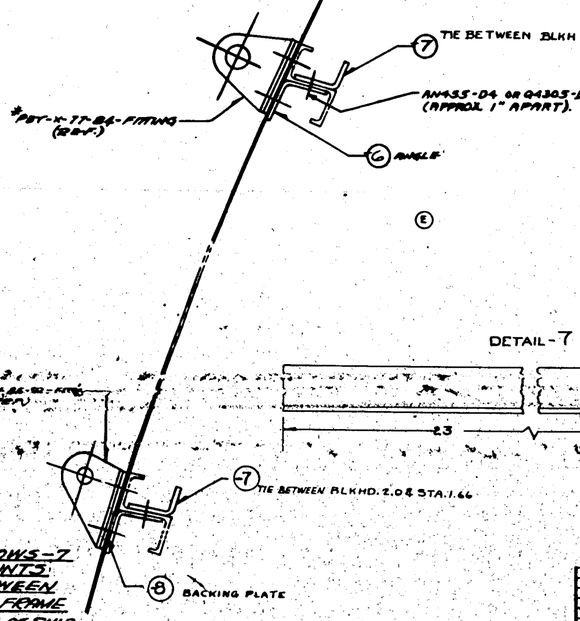
5. PACK BEESWAX FIRMLY AROUND BOTH UPPER & LOWER HULL FITTINGS (H) PAINT ON HOT MIXTURE OF 30 PARTS KETONE & 70 PARTS BEESWAX OVER WAX FILLED FITTINGS, MICARTA INSULATOR & INB'D. ELEMENT, OUTER END OF STRUT BRACE & FAIRING JOINTS

6. *28F7412 ELEMENT EXTENSION REQ'D ONLY OCCASIONALLY TO EXTEND ANTENNA ELEMENT WHEN FOUND (K) NECESSARY BY SLOTTEDLINE CHECK.

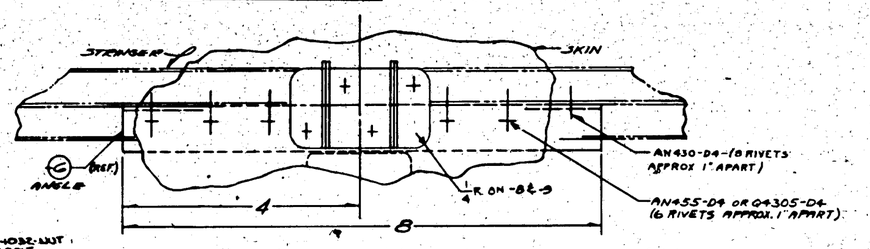
NOTES:-

1. PARTS ON HAND OF PBY-X-85-86 MAY BE USED IN PLACE OF 28F5162.
2. CONTRACTOR — INSTALL ON ALL SHIPS OF CONTRACT 08476 & 21878.
3. ON CONTRACT 70486 (23 SHIPS) & #77713, PARTS ARE TO BE FURNISHED TO NAVY FOR SERVICE INSTALL.
4. (D) BOND IN ACCORDANCE WITH BONDING REPORT E8E4027. FINISH ALL BONDS WITH 3 COATS OF AP & 1 COAT OF RUST PREVENTATIVE

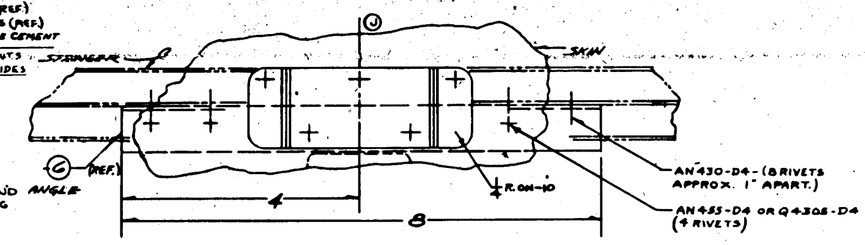
* ALL ITEMS MARKED IN SUCH MANNER ARE TO BE FURNISHED BY MANUFACTURER OF YAGI EQUIPMENT. MAY BE PURCHASED FROM ENGR. RESEARCH CORP. OF COLLEGE PARK, MD.



THIS INSTL'N. SHOWS -7 (ANGLE) WHICH MOUNTS ON STRINGER BETWEEN STA. 2.0 & 1ST BELT FRAME FWD. ON BOTH SIDES OF SNIP



BB



AA

FINISH CODE	
Z	ANODIC TREATMENT
P	P.37 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

28F5474			B
9508A-4			24
AN960-A10L			96
AN936-B10B			48
AN3-5A			116
AN455-D4 OR Q4305-D4			
AN526-1032-10			88
AN960-C10L			24
AN310-4			8
AN310-6			16
AN4-16			8
AN6-6			8
AN6-30			16
AN960-6			24
AN455-4			32
AN312-6,10			24
AN372-1032			184
AN960-10			72
AN3-5A-			60
28B5054	STRUT		1
28B5041-2	STAY		1
28B5041-0	"		1
PBY-X-92	FITTING STAY		1
PBY-X-91	"		1
PBY-X-90	"		1
PBY-X-89	"		1
PBY-X-88	"		1
PBY-X-87	"		1
PBY-X-86	"		1
PBY-X-85	"		1
PBY-X-84	FITTING STRUT		1
PBY-X-83	"		1
PBY-X-82	"		1
PBY-X-81	"		1
PBY-X-80	"		1
PBY-X-79	"		1
PBY-X-78	"		1
PBY-X-77	"		1
PBY-X-214	SPAT		4
PBY-X-213	"		4
PBY-X-191	STRUT		1
PBY-X-190	"		1
PBY-X-189	"		1
PBY-X-188	"		1
PBY-X-187	"		1
PBY-X-184	"		1

-10	1/32	3/8	2 3/8	NEOPRENE	60-80				
-9	1/32	3/8	2 3/8	NEOPRENE	60-80				
-8	.025	3/8	2 3/8	ALCLAD 24ST					
-7	.025	3/8	2 3/8	ALCLAD 24ST					
-6	1/32	3/8	2 3/8	ALCLAD 24ST					

PART NO.	WIDTH	MATERIAL	SPEC	LAY OUT NO. -0	LAY OUT NO. -2	LAY OUT NO. -3	LAY OUT NO. -4	LAY OUT NO. -5
PARTS LIST PER ASSY.								

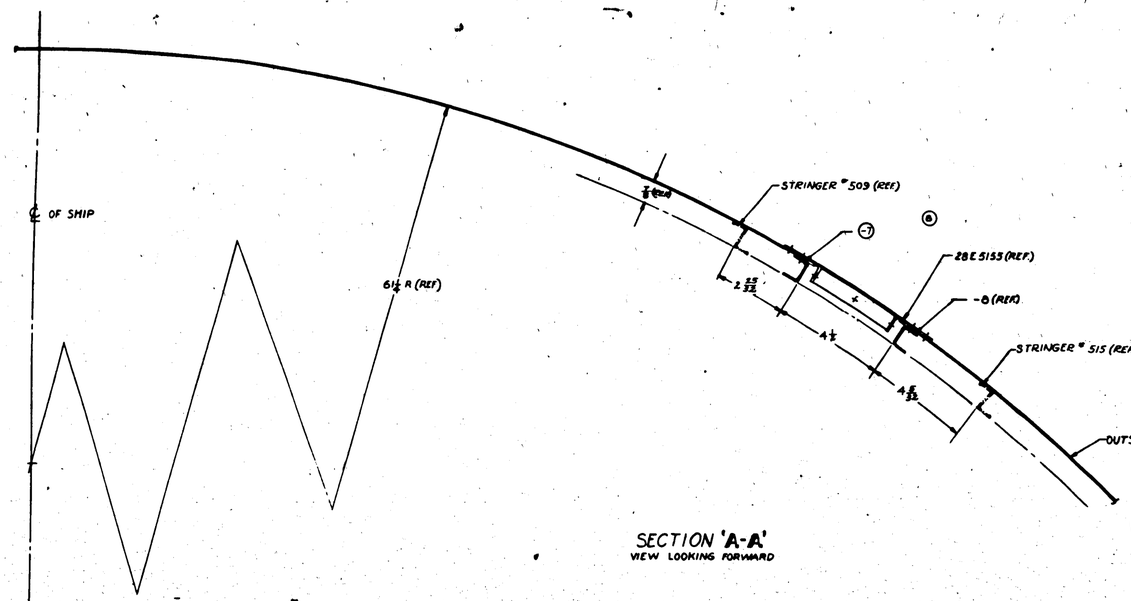
AS			
SHEET	SR 53	Z-P-AP	
HEAT TREAT		FINISH	

NAME INSTL'TN.-YAGI BROADSIDE RECEIVER ARRAY
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

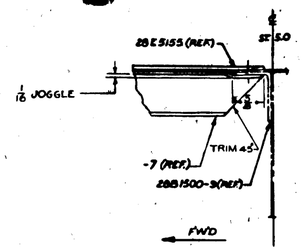
SIZE J | 28B5038

H 123

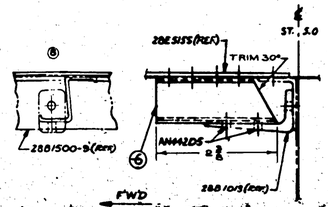
28B5038 R



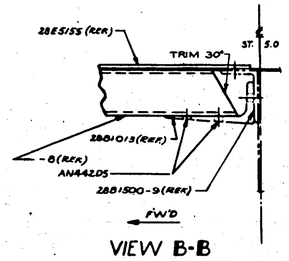
SECTION 'A-A'
VIEW LOOKING FORWARD



VIEW C-C
FULL SIZE



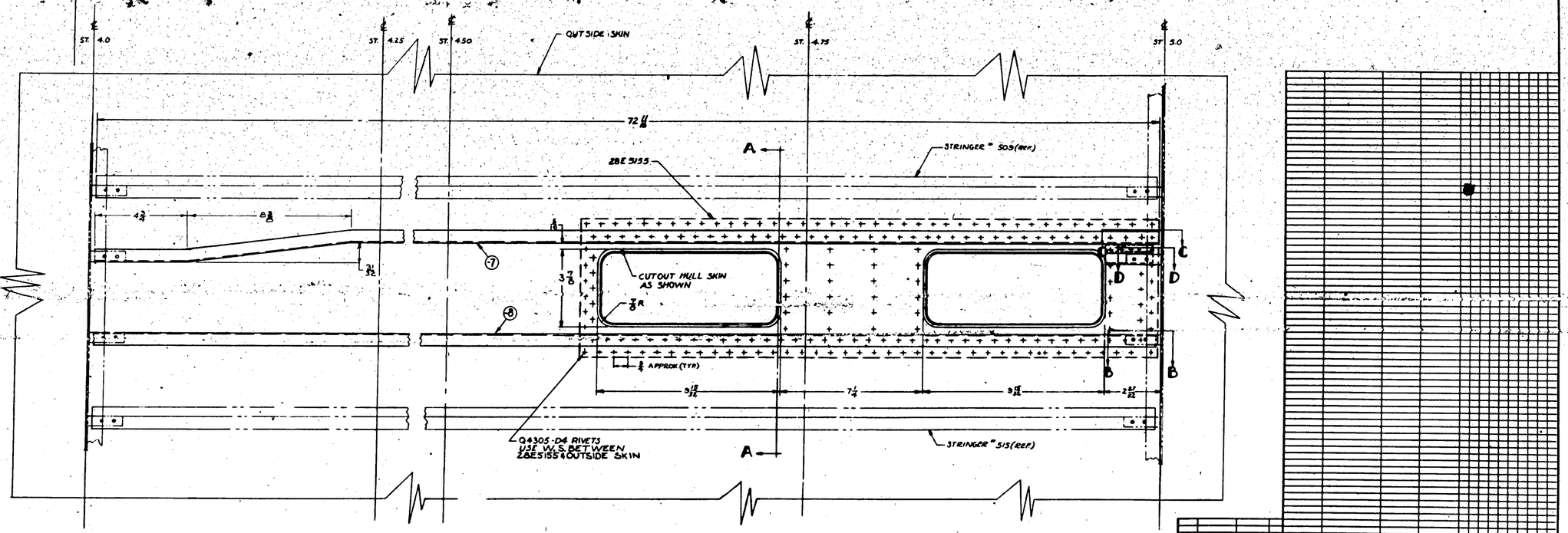
VIEW E-D
FULL SIZE



VIEW B-B
FULL SIZE

MK	ALTERATIONS	CHKD	DR	MK	AUTHORITY	DATE	DR
				A	IN RIM FOR 4 REPLACED 4 BOLTS ON EXIT PLATE & ADDED 2 NUTPLATES PER WT CHG REC.	8-20-42	TOM
				B	IN VIEW 'DD-B' WAS RE-VERSED PER WT CHG.	8-28-42	DALE

EO A 19038
EO A28754



SIDE VIEW
LOOKING OUTBOARD
FWD

C 91876 -DIGON
*1 - MSR**88-(10-4)

THIS D'WG HAS BEEN RUSH RELEASED 8/28/42

| | | | |

LET	ALTERATION	DATE	BY
A	IN SECT A-A DIM 13 WAS 14 & IN SECTION G-G ADDED WING SEALING COMPOUND PARTITION AT BULKHEAD W/1245 REQ.		
B	ADDED -23L, -23R, -24L, -24R SUBASSY W/ 4 REQ.		
C	NOTED -5 AND -10 MAT'L STRIPS ADDED FOR -7TH AGREE MAT'L NOTED -5 AT L.E. AND -10 AT T.E.		

SECTION D-D
SCALE 12"=1'-0"

SECTION E-E
SCALE 12"=1'-0"

SECTION G-G
SCALE 12"=1'-0"

SIDE VIEW CAP
FITTING AT KEEL &
SCALE 12"=1'-0"

SECTION B-B
SCALE 12"=1'-0"

SECTION C-C
SCALE 12"=1'-0"

SECTION A-A
SCALE 12"=1'-0"

SECTION F-F
SCALE 12"=1'-0"

FINISH CODE	
Z	ANODIC TREATMENT
P	P-77 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

MAT'L NOTE:
MAT'L FOR -7L OR -7R, -23L OR -23R MAY BE
A Y-2-A57 ET X 2.44, OR
B KS4101 X 2.44, 24 ST AL AL EXTR,
SPEC. 46A9, COND T.

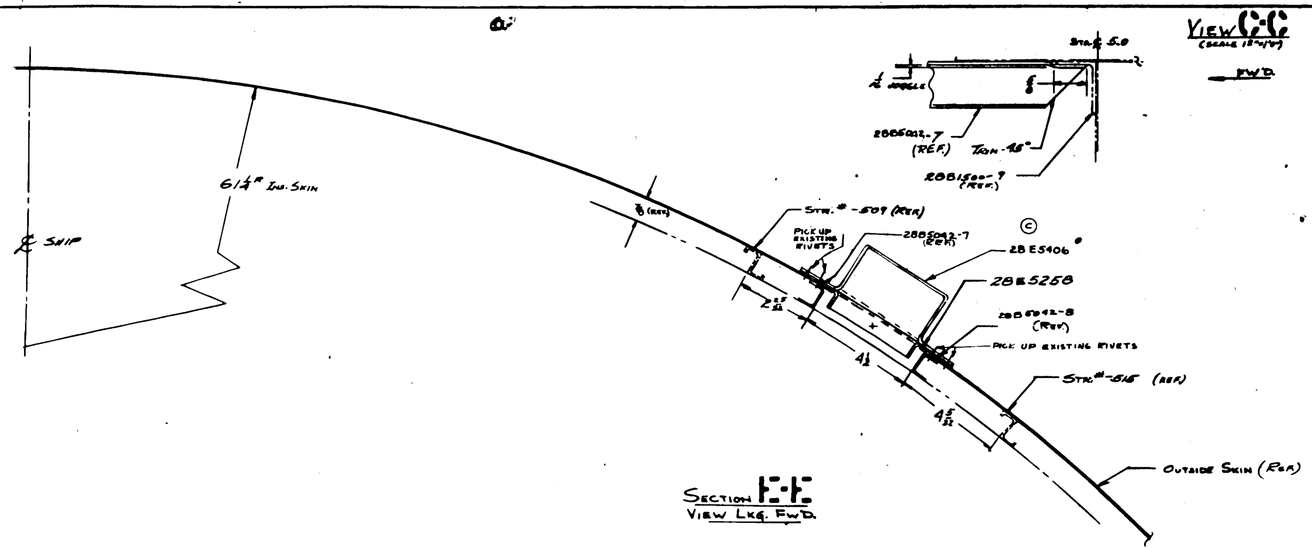
NOTE:
WATER SEAL WITH APPROVED
TYPE ZINC CHROMATE TAPE

PART No.	STOCK	MATERIAL	SPEC.	LH REQ	LH DES	LH REQ	LH REQ	LH REQ	LH REQ	LH REQ	LH REQ	LH REQ	LH REQ
	PARTS LIST PER ASSY.			-0	-2	-3	-4	-5					
-10	MAKE FROM 28B5012			1									
-21R	SUB ASSEM.												
-22L	SUB ASSEM.												
-23R	SUB ASSEM.												
-24L	SUB. ASSEM.												

A-C	MCAIR	KEPD	DWG. NO.
SHEET 38-55	Z-P-AP	24-42	28B5051
NEXT ASSY	FINISH		

NAME: STEP-INSTALL-HULL BOTTOM-STA 5
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

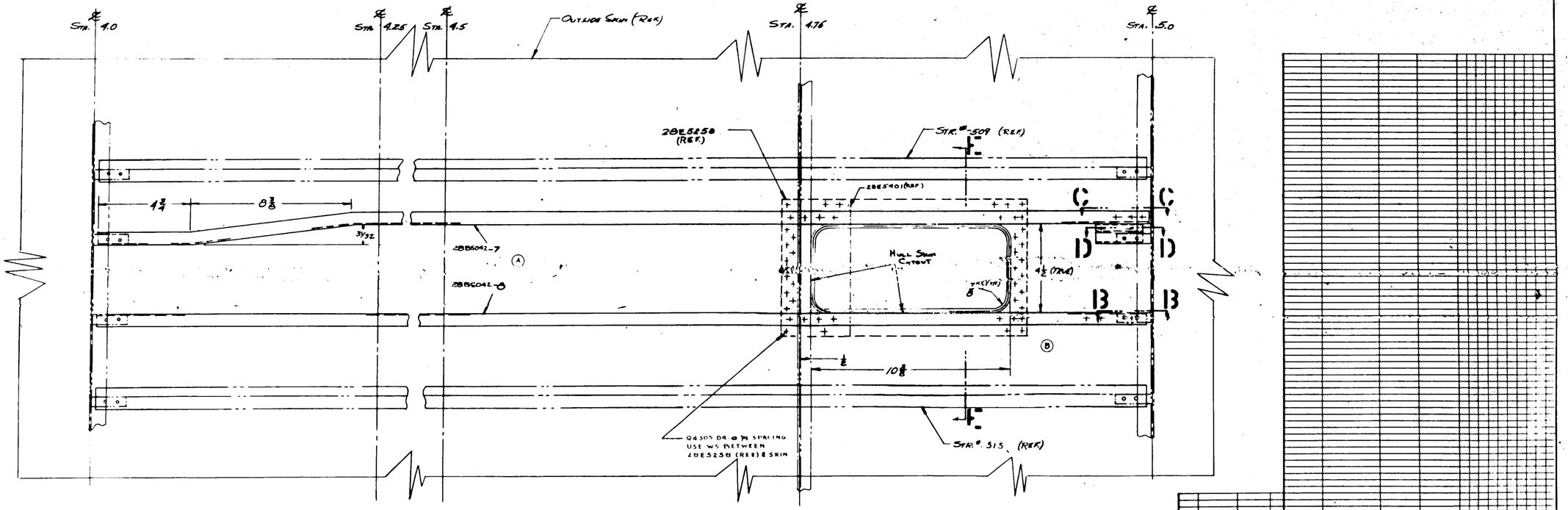
H-125



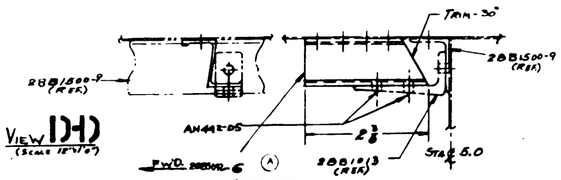
View C-C
(Scale 12"=1'0")
Fwd.

Section B-B
View Lkg. Fwd.

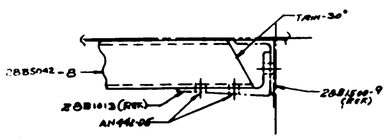
Ltr	Alteration	Date	By
A	Added -4 Reinforcing Angle 28B5042-8		
	Added -5 Reinforcing Angle 28B5042-9		
	Added -6 Reinforcing Angle 28B5042-10		
B	Changed Location and Dimensions of Hull Stringer Cutout, Added Reinforcing Angle 28B5042-11		
C	Added Rubber Seal Around Cutout		



View Lkg. Otb'd.
Fwd.



View D-D
(Scale 12"=1'0")



View B-B
(Scale 12"=1'0")

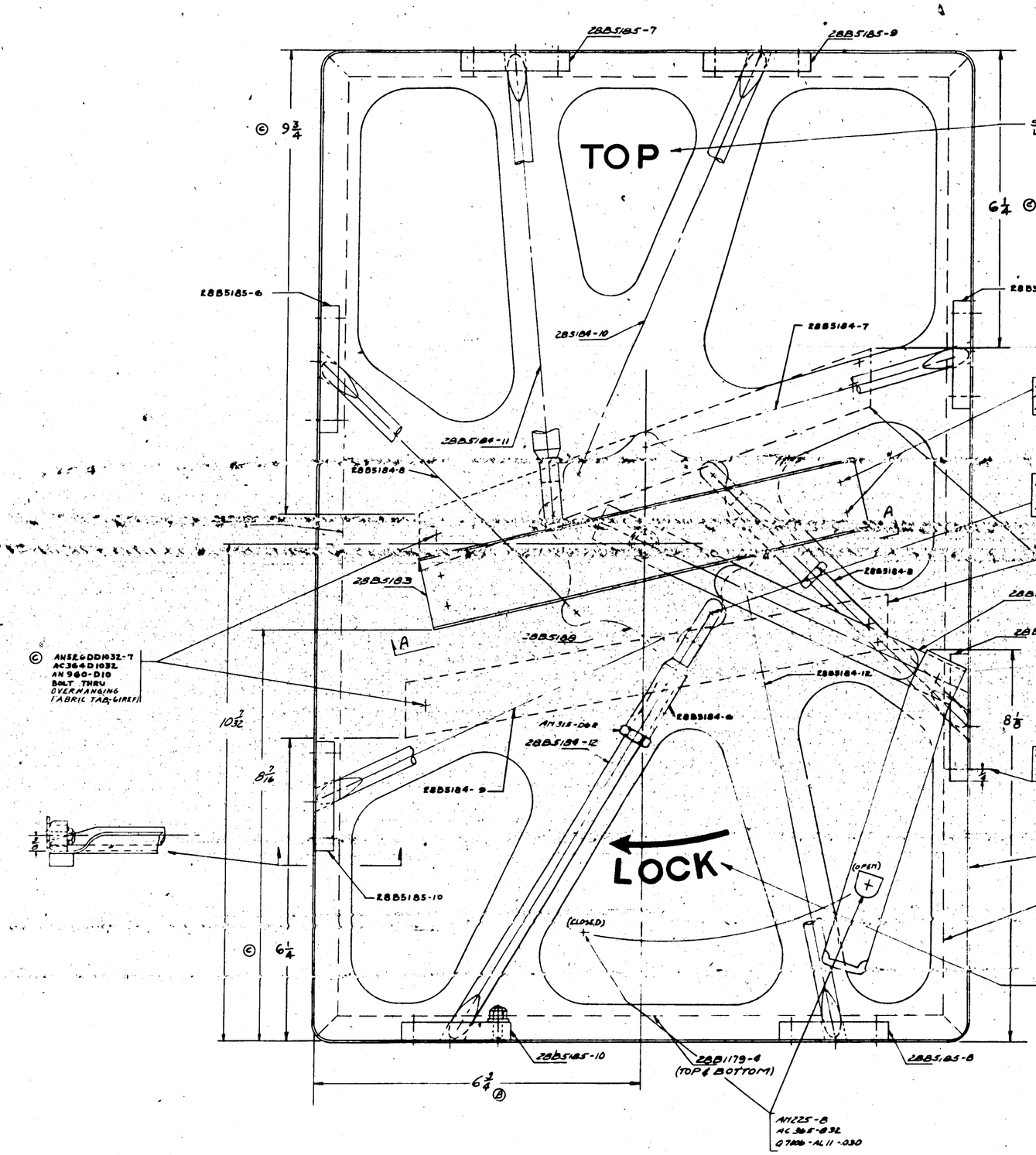
H-126

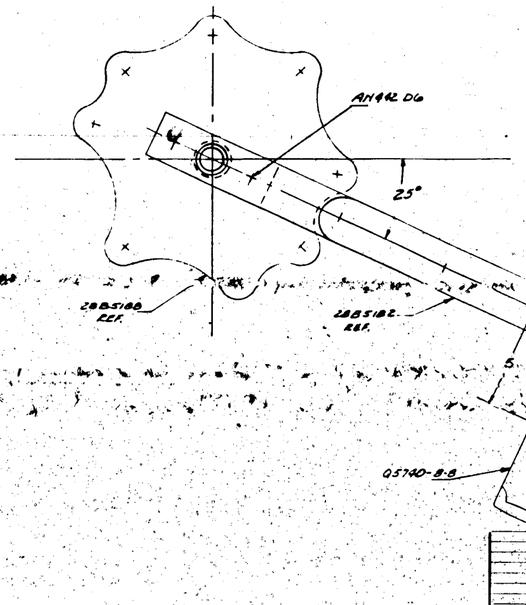
Name	Z-P		
Heat Treat	Finish		
Name	Inst.-Hull Opening Plate-Aft. Power Plant		
Consolidated Aircraft Corp. San Diego, Calif.		Size J	28B5081

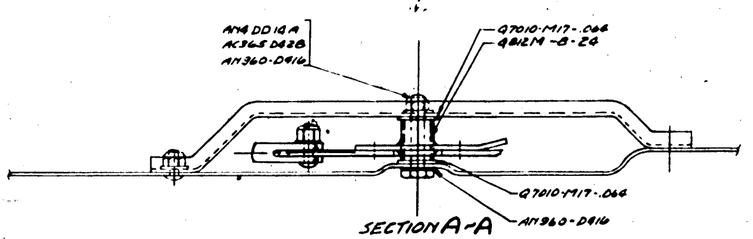
INCORP BUR AIR CHANGE #43-MODEL PBY-5A

LET	ALTERATION	DATE	BY
	-		

LET	ALTERATION	DATE	BY
A	ADDED CYLINDRICAL RIVET		
B	CHGD DIM. 7/8 TO 6 1/4		
C	ADDED AN526-DD1032-7 MAT.		
D	CHGD DIM. 1/4 TO 1/8 & ADDED AN960-D10 & 1/4 FLAT WASHER WAS 1/8 THK		
E	ASSEMBLED TO PLASTIC BLAST		
F	COVERED SPONGE RUBBER WITH CHGD -6 (UNCAB STRIPS & FABRIC CUT-OUTS) WAS R.C. BILT-RITE CHROME RUBBER HEAVY CUT. CHGD -DD-12 (16) WAS Q7108-A10 WAS REMOVED AN526-DD1032 (16) ADDED "DIMPLE CSK 3/32 DIA X 100° W/T. C.M.A. #88		
G	INC. W.N. FOR -6 REVISED "UNCAB" SPONGE, FABRIC, SCHEDULE "E" ADDED "NOTED TO MAT. BLOCK ON FACE BY -6 ADDED NOTE: "SYNTHETIC SPONGE - - - CAUT." PER M.C.R.		
H	TO REQ PER A.R.D. 8.W. ADDED WITH THRU: PBY-5A (NAF28871C6) 9/1/43 NAF 8742-NF, THR PBY-5A (NAF28871) "M.C.R. 8742-A-1 & 8" NO WT EFF.		







RUBBER CEMENT 2B11179-6 & 2B11179-5 TO 2B85181

FINISH — GP. GREEN PRIME

M.C.R. 8728-A-1 & ON

#1 TO M.C.R. 8728-A-1

25 1 ON

PART NO.	STOCK	MATERIAL	SPEC.	LET REQ -0	LET REQ -2	LET REQ -3	LET REQ -4	LET REQ -5
2B85180		NOTED		1	1	1	1	1
2B85181				1	1	1	1	1
2B85182				1	1	1	1	1
2B85183				1	1	1	1	1
2B85184-6				1	1	1	1	1
2B85184-7				1	1	1	1	1
2B85184-8				2	2	2	2	2
2B85184-9				1	1	1	1	1
2B85184-10				1	1	1	1	1
2B85184-12				2	2	2	2	2
2B85185-6				1	1	1	1	1
2B85185-7				1	1	1	1	1
2B85185-8				1	1	1	1	1
2B85185-9				1	1	1	1	1
2B85185-10				2	2	2	2	2
2B11179-5				1	1	1	1	1
2B11179-6				2	2	2	2	2
2B85186-6				1	1	1	1	1

PBY-5A	2B85180	1	
PBY-5B	2B85180	1	
28-BAHN	2B85180	1	
28-BAHC	2B85180	1	
PBY-5A	2B85180	1	
28-5MH	2B85180	1	
28-5MR	2B85180	1	
28-5MC	2B85180	1	
28-5MA	2B85180	1	
PBY-5	2B85180	1	

REQUIREMENTS PER AIRPLANE	
REPLACED	4
REPLACED BY	

MATL	HEAT TREAT	FINISH	TRUE UP	CUT	STOCK SIZE	DRAWN	CHECKED	ENGR APPR.	DATE
2"	1/2				12 1/4 0"				

STAMP PART NUMBER WHERE SHOWN

NAME COVER ASSEM - HULL BOMBER'S WINDOW

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J

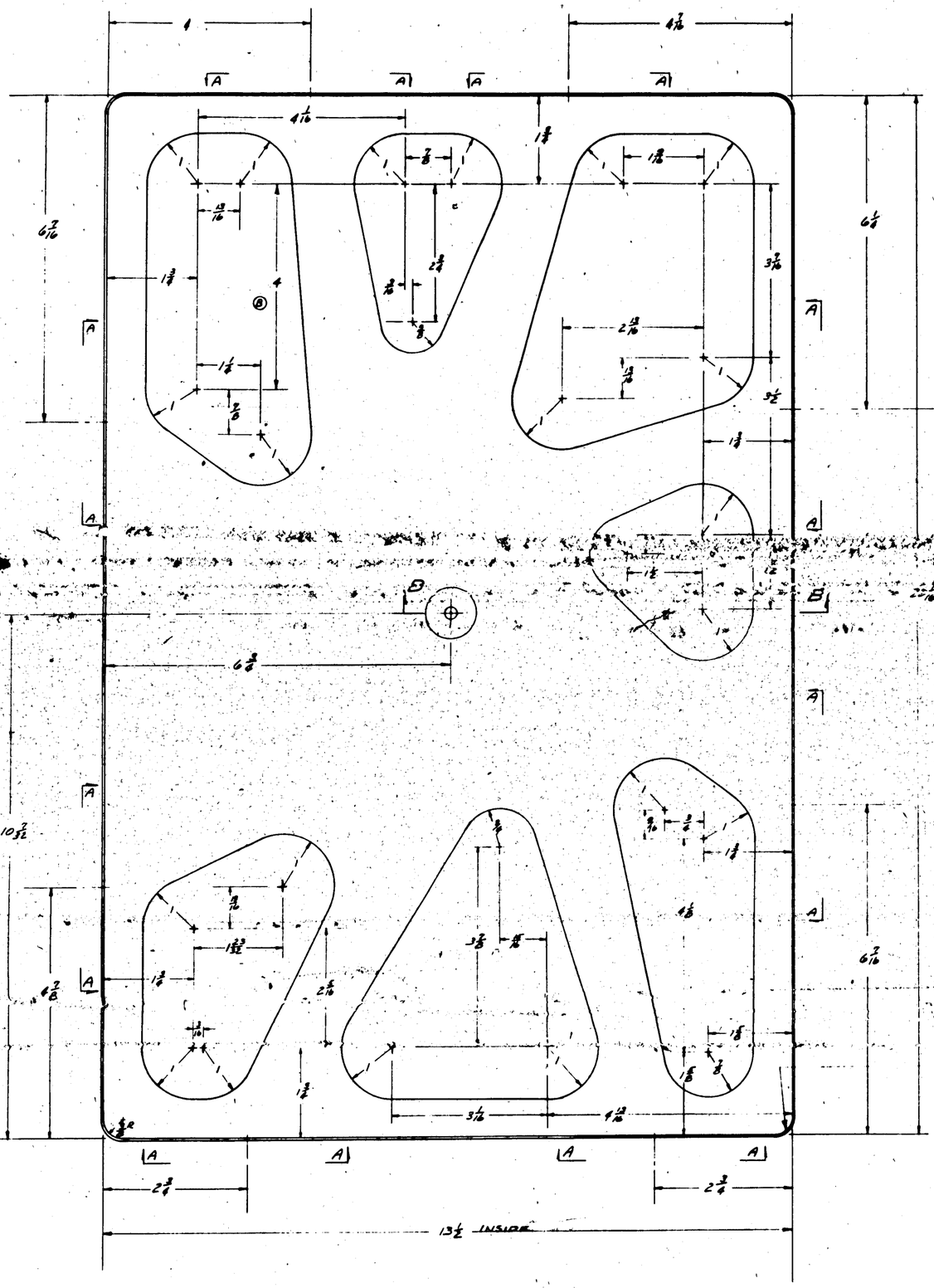
2B85180

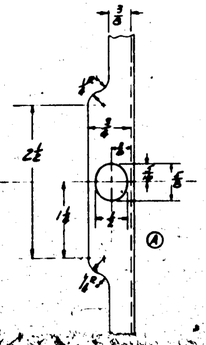
H 127

E.O. 22460
E.O. 22228
E.A. 23479

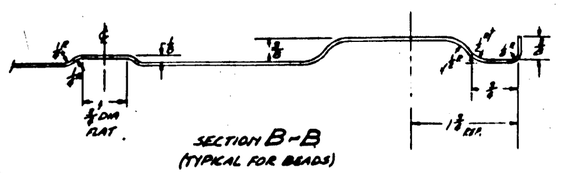
LET	ALTERATION	DATE	BY
A	REMOVED "WITH DUPLICATE OF 28B"	11-28-42	[illegible]
B	ADDED 2 DIM. BETWEEN PAINT	11-28-42	[illegible]
C	REMOVED STENCIL "TOP" AND NOTE "1/8 INCH BLOCK LET. IN BLACK PAINT"	12-8-42	[illegible]

LET	ALTERATION	DATE	BY





VIEW A-A



SECTION B-B
(TYPICAL FOR BEADS)

H 128

GU-4SEEN PRIME
FINISH COL.
Z ANODIC TREATMENT
P P-37 PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE

LIST No.	MODEL	PROV. ASSY.	NOS.
REQUIREMENTS PER AIRPLANE			
PROV-SD	28B5180		1
PROV-SA	28B5180		1
PROV-S	28B5180		1

REPLACED
REPLACED BY

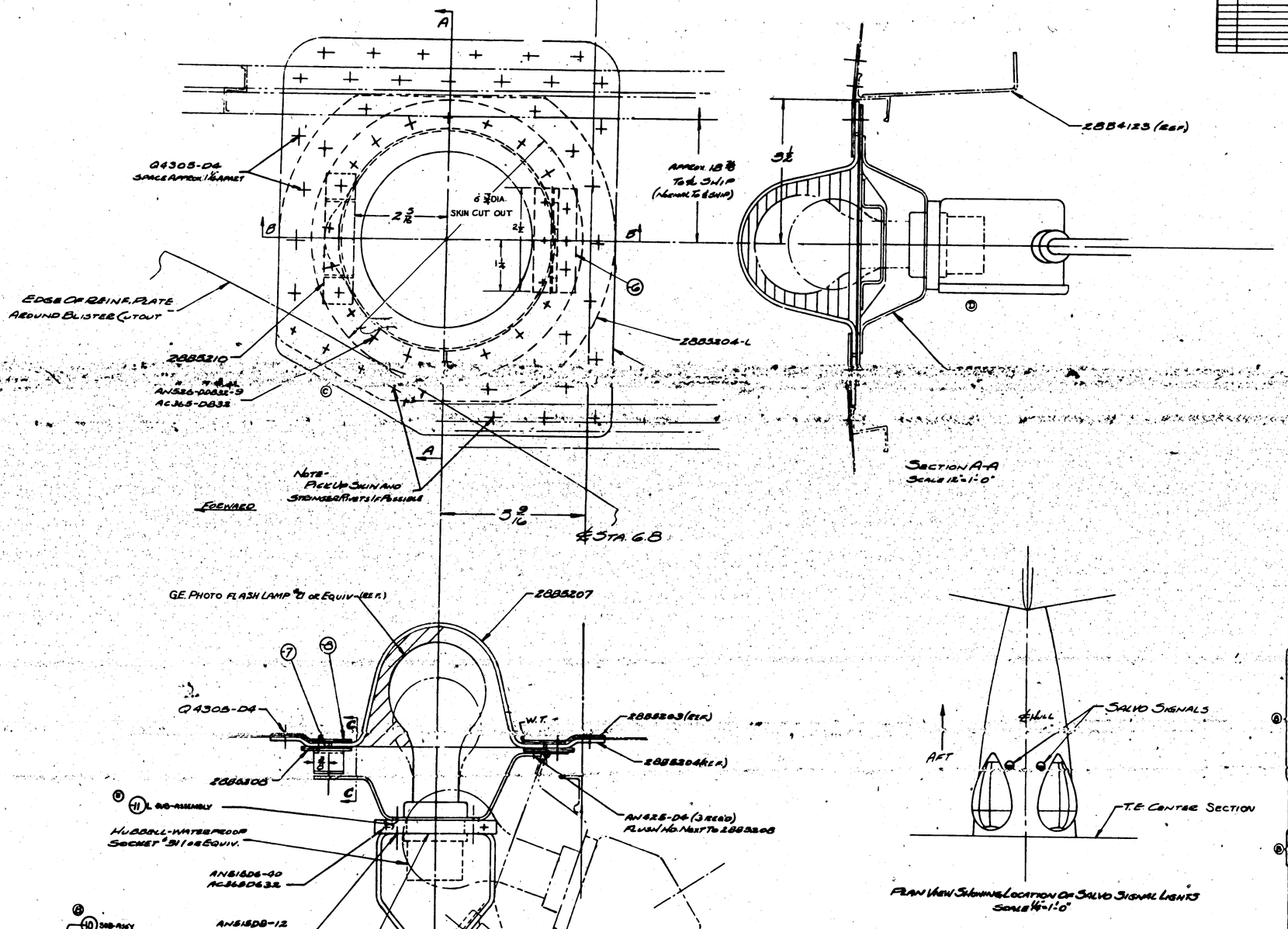
LIST OF REVISIONS THIS SHEET
LIST OF REVISIONS PREVIOUS SHEETS
SCALE 1/2
DRAWN 12-1-42
STAMP PART NUMBER WHERE SHOWN

*ARTICLES 2030 AC/AN 3TAR-A

PART NO.	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4
	PARTS LIST PER ASSY.						

A/C							
NAVY SR-13	S.P. [illegible] GT	P-60	ALSC			11-28-42	R
HEAT TREAT	FINISH	DRAFT	DESIGN	STRESS	WT.	LOFT	DATE

NAME COVER - NULL BOMBER'S WINDOW
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.
SIZE J
DWG. NO. 28B5181
OFF HAND
R



NOTE
THIS INSTALL. IS SYMM ABOUT ℄ SHIP
INSTAL. FOR PORTSIDE IS SHOW

CONT. 91876
CONT. 91876

CONT. 70496
CONT. 70496

H 129

-10 SUB ASSEMBLY

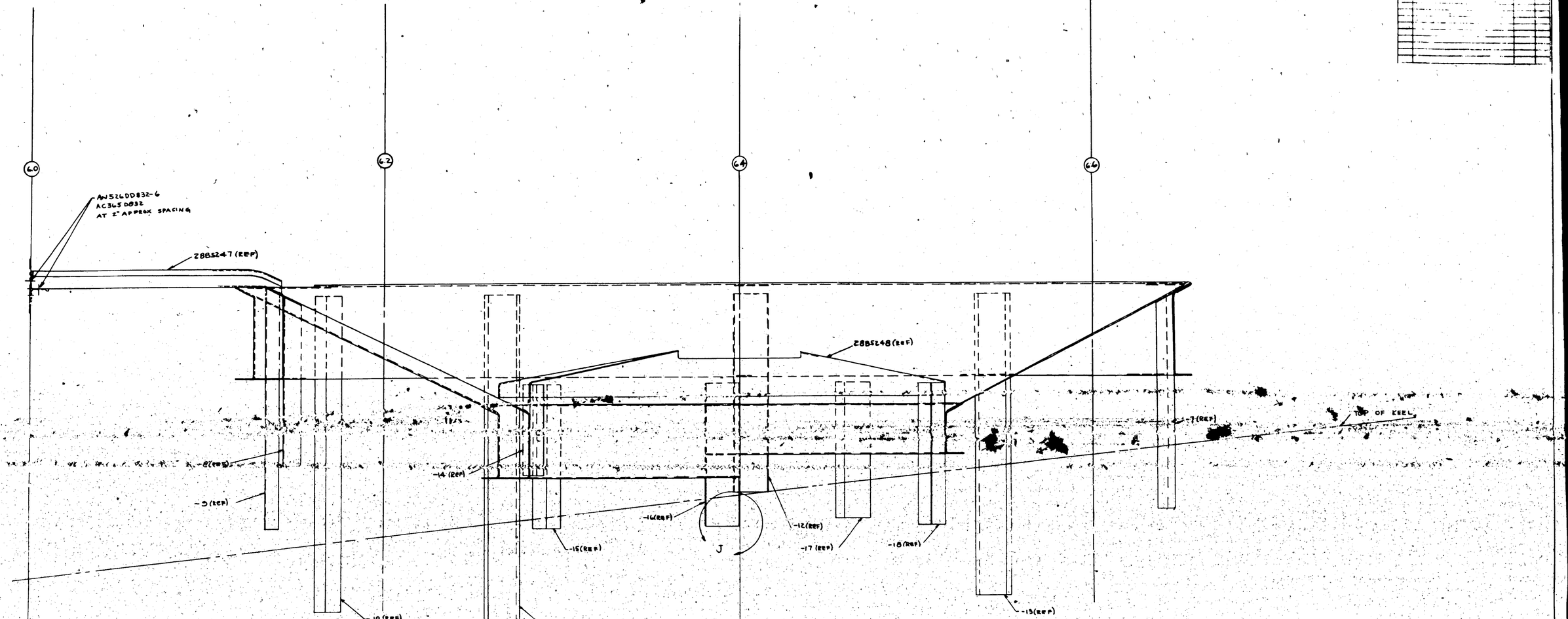
PARTS LIST PER ASSY.

INSTALL - HULL - SALVO RELEASE SIGNAL

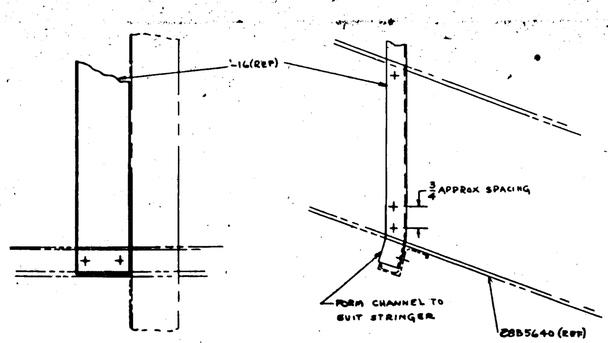
CONSOLIDATED AIRCRAFT CORP.

28B5205

R



VIEW LOOKING INBOARD



VIEW J
SCALE 6"=1'-0"

SHEET #2 OF 2 SHEETS
FOR BILL OF MATL SEE SHEET #1

CONTR. GHG "J"
S.O. 936-17

1 EA	PBY-5A	2885240	1 EA
4 EA	NP-1 ER	2885300	4 EA
R	PBY-5	2881000	
L	PBY-5	2881001	

REQUIRED FOR 1 AIRPLANE
SCALE 6"=1'-0"
1/32 NOTED

+ = RIVETS (SIZE INDICATED AT INTERVALS BY THE FOLLOWING MARKINGS)
+ = 1/8 ✦ = 5/32 ✳ = 3/16
⊕ = 1/4 ⊞ = 5/16 ◈ = 3/8

H 130

NAME FLOOR - INSTALL - HULL - STA #6 - #8 - WAIST GUNNER
CONSOLIDATED AIRCRAFT CORP.
2885641-H
J 2885241

L	#1256-155 OR EQUIV TREAD COAT						
	BIN MFG. #1 WEATHERPROOF STN. & LACQUER CO. MAYWOOD CALIF.						
	WAS -F, E-244 PREP MINN. MINING & MFG. CO. NOW -F CHG. P-6-41 (2)						

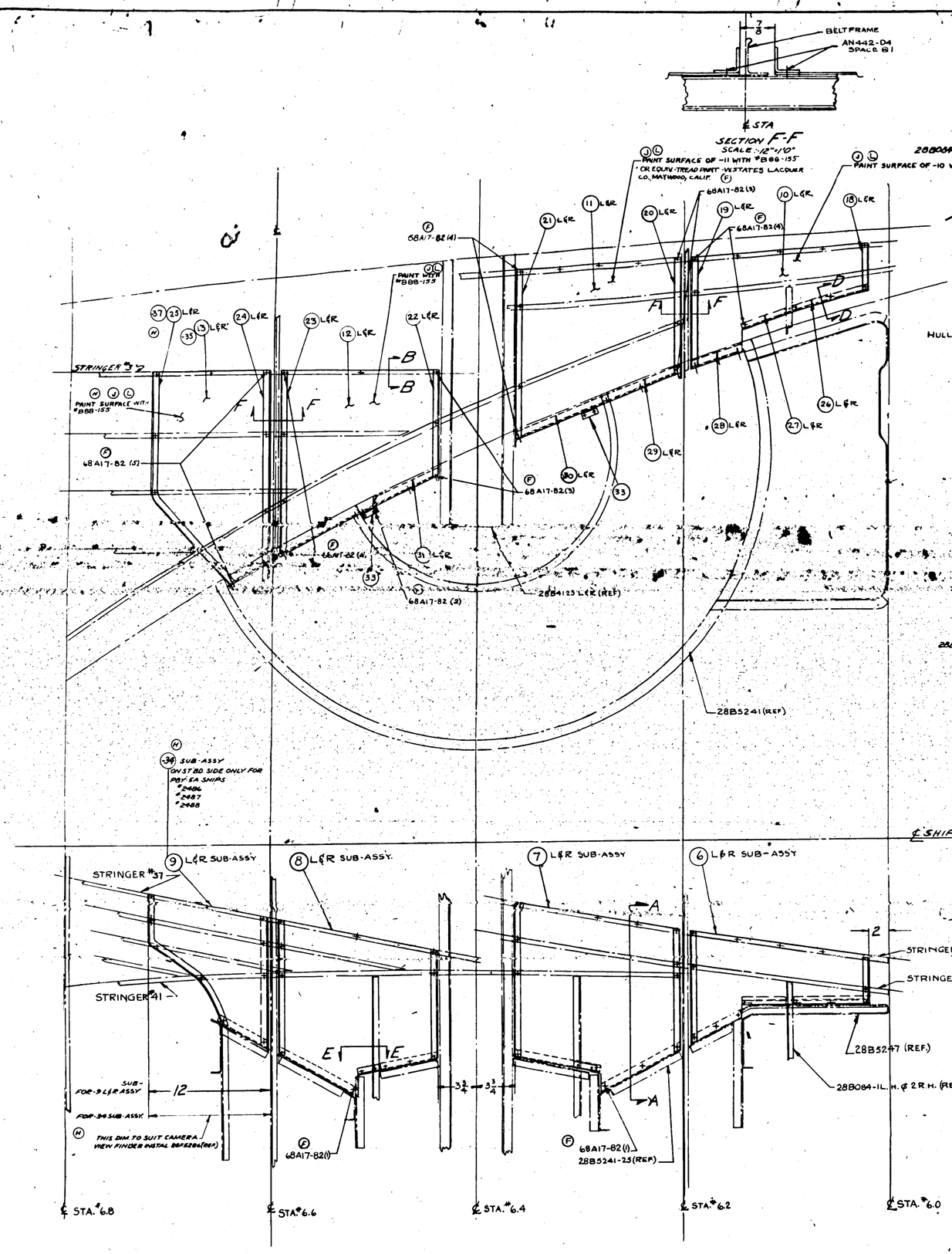
LET	ALTERATIONS	DATE	BY
K	-68A17-82 (4) WAS -68A17-82(4) "ELIMINATED" PER AL. ALL. 64A8-8 "WITH "NOTED" PER -3137A (ELIMINATED) "ASSY 8 PL. 244 PREP MINN. MINING & MFG. CO. NOW "F" CHG. P-6-41 (2)		

LET	ALTERATIONS	DATE	BY
A	REVISED -35L, -35R, -36L, -36R TO BE NOTED	6-30-43	
B	-18 W CONST. WAS CONST. A	31-41	
C	-3137A (ELIMINATED) -11F-13 ATTACHED TO 28B5141-49 SECT. C-C WAS REPLACED BY TYPICAL VIEW AS SHOWN	3-30-43	
D	MATL. FOR -38 WAS K1288-93 ADDED TO -31, -31F	3-10-43	
E	IN DWG. & SPEC. AN3126-DD832-3A AC366-DF832 WERE REVISED TO THE FOLLOWING SUB ASSEM. FROM -15 IN -6 & -7, 16 TO 18 IN -8 & 19 TO 21 IN -9	3-30-43	
F	IN SPL. ANNO-SPEC 38 WERE REVISED TO 39 IN FOLLOWING SUB ASSEM. FROM 18 TO 9 IN -6, 19 TO 5 IN -7, 12 TO 14 IN -8 & 13 TO 15 IN -9 ADDED TO DRG. # SK. 68A17-82. IN FOLLOWING SUB ASSEM. IN -6, BIN -7, 10 IN -8, & 3 IN -9	4-5-43	PRELIMINARY
G	IN SPL SHEET - 33 WERE REVISED TO -33 (4) PER SHIP REQMT'S	4-30-43	
H	DWG'S UP TO DATE. CREATED -24SH & ADDED -34 SUB ASSY TO	5-21-43	VMA
J	ADD OF DWG # SH. W/ CHG NER. REVISED -14 TO -13 & -16 TO -15 PER SHIP'S MAT'L FOR -14, -15, -16, -16 TO BE	7-2-43	
K	RUBBER PYRAMID MATTING ADDED NOTE: "PAINT ... EQUIV" W/ CHG NER	9-21-43	

E.O. 35734
E.O. 37773
E.O. 29007
E.O. 29811
E.O. 38175
E.O. 41116
E.O. K
E.O. A15834

MATERIAL NOTES-

(K) 1-MAT'L. FOR -18L & -18R MAY BE-
(A) Y-2-A20T X 9, OR
(B) K13624 X9, AL. AL EXTR., SPEC. QQ-A-354-T.
2-MAT'L. FOR -19L, -19R, -22L & -22R MAY BE-
(A) Y-2-A20T X 19, OR
(B) K13624 X 18, AL AL EXTR., SPEC. QQ-A-354-T.
3- MAT'L. FOR -20L & -20R MAY BE-
(A) Y-2-A20T X 20, OR
(B) K 13624 X 20, AL. AL EXTR., SPEC. QQ-A-354-T.
4-MAT'L. FOR -21L & -21R MAY BE-
(A) Y-2-A20T X 28, OR
(B) K13624 X 28, AL. AL EXTR., SPEC. QQ-A-354-T.
5- MAT'L. FOR -23L & 23R MAY BE-
(A) Y-2-A20T X 26, OR
(B) K13624 X 26, AL. AL. EXTR., SPEC. QQ-A-354-T.
6- MAT'L. FOR -24L & -24R MAY BE-
(A) Y-2-A20T X 27, OR
(B) K13624 X 27, AL. AL EXTR., SPEC. QQ-A-354-T.
7- MAT'L FOR -25L, -25R, & -37 MAY BE-
(A) Y-2-A20T X 36, OR
(B) K13624 X 36, AL AL EXTR., SPEC. QQ-A-354-T.
8- MAT'L FOR -26L & -26R MAY BE-
(A) Y-37-A8T X 12, OR
(B) K 9048 X 12, AL AL EXTR., SPEC. QQ-A-354-T.
9- MAT'L FOR -27L & -27R MAY BE-
(A) Y-37-A8T X 7, OR
(B) K9048 X7, AL AL EXTR., SPEC. QQ-A-354-T.
10- MAT'L FOR -28L & -28R MAY BE-
(A) Y-2-A28T X 9, OR
(B) K3401 X 9, AL AL EXTR., SPEC. QQ-A-354-T.
11- MAT'L FOR -29L & -29R MAY BE-
(A) Y-8-A17T X 12, OR
(B) K1288 X12, AL. AL. EXTR., SPEC. QQ-A-366-T.
12- MAT'L FOR -30L & -30R MAY BE-
(A) Y-6-A17T X 19, OR
(B) K1288 X19, AL AL EXTR., SPEC. QQ-A-354-T.
13- MAT'L FOR -31L & -31R MAY BE-
(A) Y-6-A17T X 10, OR
(B) K1288 X 10, AL AL EXTR., SPEC. QQ-A-354-T.
14- MAT'L FOR -32L & -32R MAY BE-
(A) Y-2-A28T X 3, OR
(B) K3401 X 3, AL AL EXTR., SPEC. QQ-A-354-T.



FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

CONTRACT CHG. J
S.O. 936-17
INST. BY C.A.C. TO START WITH #25 PBY-5 AIRPLANE
INST. BY SERVICE #1 TO 24 INCL.

NOTES-
1. (+) INDICATES AN526-DD832-9 LOCATE APPROX. AS SHOWN.
2. CEMENT PYRAMID MATTING TO SHEET WITH VULCALOK.

68A17-82					
-37	NOTED	NOTED	NOTED	1	
-35	.060 X 14 X 89	AL CLAD	47A8-A	1	
-36	NOTED	NOTED	NOTED	1	
AN 526-DD832-9				5	
AC 366-DF832				4	
-34	SUB ASSY				9 9
AN 526-DD832-9				9 9	
AC 366-DF832				4 4	
68A17-82				2 2	
-33R	NOTED	NOTED	NOTED	1	
-33L	NOTED	NOTED	NOTED	1	
-23R	NOTED	NOTED	NOTED	1	
-23L	NOTED	NOTED	NOTED	1	
-22R	NOTED	NOTED	NOTED	1	
-22L	NOTED	NOTED	NOTED	1	
-18R	.040 X 22 X 32	ALCLAD	47A8	1	
-12L	.040 X 22 X 32	ALCLAD	47A8	1	
-8	SUB ASSY				
AC 366-DF832				6 6	
AN 526-DD832-9				9 9	
-33	NOTED	NOTED	NOTED	1	
-30R	NOTED	NOTED	NOTED	1	
-30L	NOTED			1	
-39R	NOTED			1	
-39L	NOTED			1	
-21R	NOTED			1	
-21L	NOTED			1	
-20R	NOTED			1	
-20L	NOTED	NOTED	NOTED	1	
-11R	.040 X 31 X 33	ALCLAD	47A8	1	
-11L	.040 X 31 X 33	ALCLAD	47A8	1	
-7	SUB ASSY				
68A17-82				4 4	
AN 526-DD832-9				13 13	
AC 366-DF832				9 9	
-28R	NOTED	NOTED	NOTED	1	
-28L	NOTED			1	
-27R	NOTED			1	
-27L	NOTED			1	
-19R	NOTED			1	
-19L	NOTED			1	
-18R	NOTED			1	
-18L	NOTED	NOTED	NOTED	1	
#1256-155 OR EQUIV TREADPAINT W. STATES LACQUER CO. MAYWOOD CALIF.					
-10R	.040 X 22 X 21	ALCLAD	47A8	1	
-10L	.040 X 22 X 21	ALCLAD	47A8	1	
-6	SUB ASSY				
-34	SUB-ASSY				
-32	SUB-ASSY				
-31					
-8R					
-8L					
-7R					
-7L					
-6R					
-6L	SUB-ASSY				

PART NO.	STOCK	MATERIAL	SPEC	LR REQ	LR REQ	LR REQ	LR REQ	LR REQ
PARTS LIST PER ASSY				-10	-8	-9	-6	-8

A.C.		6390	
HEAT TREAT NOTED	FINISH E-P-AP	SCALE 1/8	SHEET 1 OF 1 SHEETS
		DRAFT	DRAFT'S
NAME INSTALL - HULL - SHELL DEFLECTOR - WAIST GUN			OPR. NAME
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.		SIZE J	DWG. NO. 28B5261

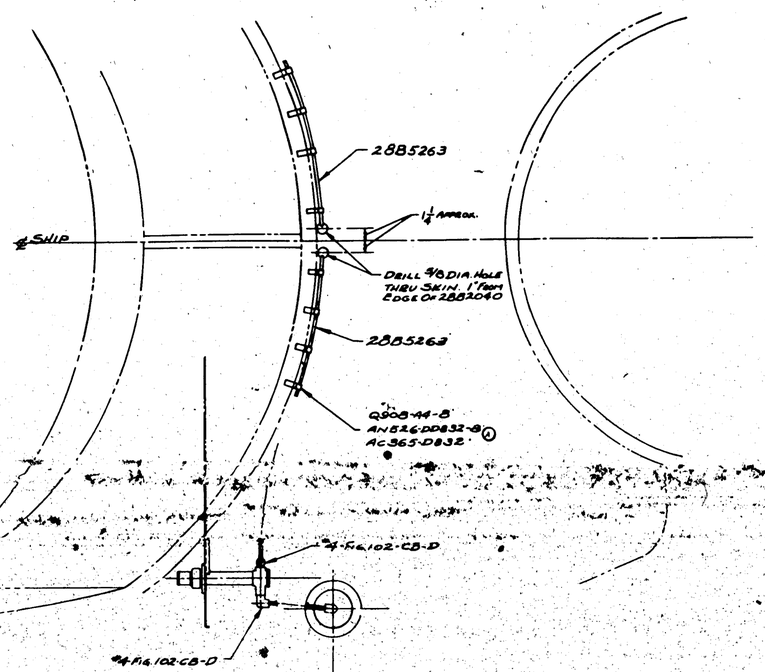
H 131

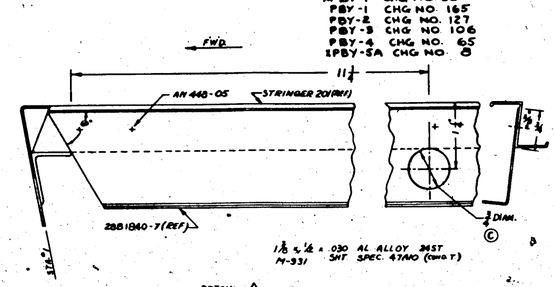
R 1925882

LET	ALTERATIONS	DATE	BY
A	REMOVED FROM FACE OF [illegible] IN (24) DRILL & RIVET SETS AN426-3DD3-5 & AN426-3DD3-6 WAS (11) SETS AN426-3DD3-5, 1/16 GRIP, 1/8 DIA. AD & AN426-3DD3-6, 1/16 GRIP, 5/32 DIA. AD PER AN470AD4-4		
B	[illegible] PER C.O.	1-17-[illegible]	
C	CUT [illegible] DIA. AT [illegible] AS SHOWN IN DETAIL A		
D	[illegible]	9-10-[illegible]	
E	NEG. WT. SER. PER C.O. 2441	2-14-[illegible]	
F	[illegible]	[illegible]	
G	IN PARTS LIST PER ASS'Y ALTR. REMOVED [illegible]	[illegible]	
H	[illegible]	[illegible]	

C.O. 28141 PBY-5
C.O. A1489

INCORPORATES
BU. AERO. CHG'S
XPBY-1 CHG NO. 28
PBY-1 CHG NO. 165
PBY-2 CHG NO. 127
PBY-3 CHG NO. 106
PBY-4 CHG NO. 65
1PBY-5A CHG NO. 8


28B5263
1½ APPROX.
SHIP
DRILL 9/8 DIA. HOLE THRU SKIN, 1" FROM EDGE OF 28B2040
28B5263
Q908-44-8
AN526-DD832-8 (A)
AC365-D832
4-F16102-CB-D
4-F16102-CB-D
PILOT'S ENCLOSURE
NOTE- LINES MUST BE SO INSTALLED AS TO ELIMINATE ALL POSSIBILITY OF A TRAP.
(9) ON OUTSIDE OF HULL
AN316-D10R
NAF-B13695-4D
NAF-213690-4D
Q908-A4-8
AN526-DD832-12
AC365-D832
(B)
28B1133-25 (REF)
AN526-DD832-7
AC365-D832
3 REQ'D
PRIMER PUMP SAME AS PARKER TYPE B-2 PRIMER EXCEPT UNIT NOTATION "EN6 PRIMER" AND INDICATOR LETTERING.
(10)
STEINSER #221 SEE DWG. #28B1840
C.V.A.C. PRI-3-50
(G)
28F3006-3 (REF)
4-F16102-CB-D
10
(D)
AN526-DD832-7
AC365-D832
4 REQ'D
28B5264
AN526-DD832-7
AC365-D832
4 REQ'D
8
7
6
22⅝ APPROX.
PILOT'S INSTRUMENT PANEL
28B5265
SHIP
VIEW LOOKING FORWARD
STA. 133
STA. 10
FORWARD



DETAIL A
FULL SIZE

C.A.C. TO MAKE THIS INSTALL ON SHIP "254 ON PBY-5 AND FURNISH PARTS FOR NAVY SERVICE TO INSTALL ON "1-"24, PBY-5 SEE S.O. 936-30 CONTR. CHANGE R & Q-2

NOTE: C.V.A.C. PRI-3-50 MAY BE PURCHASED FROM THE PARKER APPLIANCE CO, CLEVELAND, OHIO, UNDER THEIR NUMBER, DP4CA-2A. (G)

FINISH CODE	
A	ANODIC TREATMENT
AD	ALUMINUM DUST
ER	ELASTOMERIC PRIMER
C	CADMIUM PLATE

PART No.	STOCK	MATERIAL	SPEC.	PLATES LIST PER ASSY. -0	-3	-4	-8
				REQ'D	REQ'D	REQ'D	REQ'D
-10	CASTING	[illegible]	[illegible]	1			
-9	[illegible]	[illegible]	[illegible]	1			
-8	[illegible]	[illegible]	[illegible]	1			
-7	[illegible]	[illegible]	[illegible]	1			
-6	[illegible]	[illegible]	[illegible]	1			
-5	[illegible]	[illegible]	[illegible]	1			
-4	[illegible]	[illegible]	[illegible]	1			
-3	[illegible]	[illegible]	[illegible]	1			
-2	[illegible]	[illegible]	[illegible]	1			
-1	[illegible]	[illegible]	[illegible]	1			
-0	ASSY.			1			

-10	CASTING		
-9	[illegible]		
-8	[illegible]		
-7	[illegible]		
-6	[illegible]		
-5	[illegible]		
-4	[illegible]		
-3	[illegible]		
-2	[illegible]		
-1	[illegible]		
-0	ASSY.		

	4-F16102-CB-D (PARKER FITTING)	3	
	NAF-B13695-4D	1	
	NAF-213690-4D	2	
(2) (A)	AN316-D10R	3	
	AN426-DD832-7		
(A)	AC365-D832	25	
	AN960D10	2	
		14	
	AN960-416		
	AN960-10		
	AN960-10L		
	AN960-8		
	AN960-8L		
	AN960-416L		
	AN960-10L

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
P	REVISED 28B1333-7 TO NO WT CHG	2-9-43	NORTH	A	ADDED -11 & -12 REPAIR		
O	CREATED - 3 ASSY. ADDED VIEW LOOKING FWD., 51° 6'D SIDE.				REVISED 28B5350-151 TO -11 & -12		
	WT. CHG. NEG.	6-15-43	WELLS	B	ADDED -13 & -14 REVISED SECT A-A	9-6-43	
A	-28(11) WAS -28(1) FOR -3 NO WT. CHG.	6-21-43	MAHR	C	CHANGE LOCATION OF MIN. DIM. AT SEC. D - 6'D THAT SHOWN 5'D		
	ASSY.				NO. 10 & 11		
				D	CHANGED -13 & -14 FROM 2024-T4 CLAD TO 24 ST MATERIAL		
				E	CHANGED ALL REFS TO 28B5425 OR 28B5425-14 & -15		
					-14 - 6 TO 92155-14-6		
					OR 28B5425-14 & 15 TO 28B5425-14 & -15		
					-14 - 4, 92155-14-4 TO 28B5425-14 & -15		
					-14 - 5, 92155-14-5 TO 28B5425-14 & -15		
					-14 - 6 TO 28B5425-14 & -15		
				F	CHG'D 28B5323-10 & -11 TO 28B5308		
				G	ADDED DAS "CUT BOTTOM"		
				H	CHANGED "E" ROZET (WT. CHG. NEG.)		
				J	CHG'D TO REVISED TO 28B075-7 NO WT. CHG.		
				K	CHG'D 28B075-1, -7 TO 28B075 (WT. CHG. NEG.)		
				L	"NOTE (F)" WAS (2) ADD 28B075 - 1 & NOTE "DIM. ETC." NO WT. CHG.		
				M	REVISED 28B1333-12 & -11 ADDED -13 & -14 ASSY. NO WT. CHG.		
				N	REVISED REQ PLANE BK. NO WT.		

28B1333-86
-87

28B1333-12 L.H.
-13 R.H.

For Portion Of B.K. Not Shown See 28B1333.

Hdbl. Or Stringer

AN442D5

AN442D4

29 9/16 R

AN442D5

Filler -8

AN442D4, 6 Rivets — Do Not Rivet Until Ass'y With 28B060.

Ref. -71

-20 L.H.
-21 R.H.

-71

From Here Down, AN442D5 @ 1/2 Spac. — From Here Up, See 28B1333.

AN442D6

AN442D6

-9 RH Only

52 1/2 To ℄

AN442D6

50 To ℄

-9 L.H. Only

See Sect. Detail -10

28B5425-14L Diag. Brace.

See Detail 'E' 28B5425

28B5309

28B1339-60 L.H.
-59 R.H.

Q2155-14-6.

Q2155-14-5

Q2155-14-4

Q2155-14-4

22F32 RH Only

31 1/16 To ℄

28B5425-14L Diag. Brace.

See Detail 'E' 28B5425

28B5309

AN442D6, 5 Rivets In -10.

-10 L.H. Only

Between The Tangent Pts On This Radius The Top Flange Angle On -6 Decreases From 90° To 89°.

12 R.

17 1/4 To ℄

15 To

22F32 RH Only

28B5250-8 (L.H. Only)

AC425-D6

28B5250-15 L.H. Only

7 1/2

7 1/2

AN442D6

-11 RH Only

B

Q2155-14-4

Q2155-14-6

Q2155-14-75

See Sect A-A Dim. A, 2.39 Ref.

28B5425-14L Diag. Brace

28B5308

See Detail 'E' 28B5425

28B5250-13L

AN442D8

24 To ℄

6 1/4

90°

34°

7R 1/2

1 1/4

Splice -24

Ship ℄

31 5/8

35 5/8

28B1366-16

AN442D5

Splice

7 1/2

-23

-26

3/8

View Looking Fwd - 51°6'D Side For -3 Assy.
No Scale

Section B-B
Full Size

60°

Cut 45°

-76 (Ref.)

Section C-C
Scale 12"=1'-0"

-13 Ref.

-14 Ref.

4 1/16

1R 1/8

2 1/8

28B1333-60 (Ref.)

Sect. A-A
Full Size

3/4

1R 1/8

2

.064

Section Detail Of -13 & -14
Full Size

28B075-7 On This Stringer, R.H. Side Only.

See Section Detail B

See Section Detail B

28B075
See Sect. B-B Or 28B5425.

View Shown — Port Side
Looking Forward

Notes — For Outside Contour See 28B003.
For Bevel Angles See 28B036.
For Stringer Spacing See 28B1007
For Dimen's & Detail Not Shown See 28B1333.
H.T. All Cond. A Mat. Per Spec. SR-53.
Rivets AN442D.

Finish Code
A Anodic Treatment
P 193 Primer
AP Aluminized Primer
C Cadmium Plate

-0	P2Y-5	28A5000	1
-0	P2Y-5A	28B5300	1
-2	P2Y-5A	28B5000	1
-2	P2Y-5A	28A5300	1
-2	P2Y-5	28A5000	1
-3	P2Y-5A	28B5300	1
-3	P2-5AN4	28B5300	1
-3	AD-5AN4	28B5300	1
-3	AD-5AN4	28B1000	1
-3	AD-5AN		
-3	AD-4AN		
-3	AD-3AN		
-3	P3Y-5	28B1000	1
LIST No.	MODEL	NEXT ASSY	QTY

REQUIREMENTS PER AIRPLANE
DUPLICATE -4 -5 -6 -7 -8 -9
DUPLICATE BY

-1	P2Y-5	28A5000	1
-1	P2Y-4	28A5300	1
-1	P2Y-4A	28B5300	1
-1	P2Y-5A	28B5300	1
-1	P2-5AN4	28B5300	1
-1	P2-5AN		
-1	P2-4AN		
-1	P3Y-5	28A5000	1
LIST No.	MODEL	NEXT ASSY	QTY

REQUIREMENTS PER AIRPLANE
DUPLICATE -4 -5 -6 -7 -8 -9
DUPLICATE BY

-0	P2Y-5	28A5000	1
-0	P2Y-5A	28B5300	1
-2	P2Y-5A	28B5000	1
-2	P2Y-5A	28A5300	1
-2	P2Y-5	28A5000	1
-3	P2Y-5A	28B5300	1
-3	P2-5AN4	28B5300	1
-3	AD-5AN4	28B5300	1
-3	AD-5AN	28B1000	1
-3	AD-4AN		
-3	AD-3AN		
-3	P3Y-5	28A1000	1
LIST No.	MODEL	NEXT ASSY	QTY

REQUIREMENTS PER AIRPLANE
DUPLICATE -4 -5 -6 -7 -8 -9
DUPLICATE BY

#91-506, C91676
#55-146, C88476
#1-100, C-NO A1464
#1-52, C-88476
#1-100, C-91676
C-70486, 77713

#1E & ON
C-70486
#2E & ON

-0	P2Y-5	28A5000	1
-0	P2Y-5A	28B5300	1
-2	P2Y-5A	28B5000	1
-2	P2Y-5A	28A5300	1
-2	P2Y-5	28A5000	1
-3	P2Y-5A	28B5300	1
-3	P2-5AN4	28B5300	1
-3	AD-5AN4	28B5300	1
-3	AD-5AN	28B1000	1
-3	AD-4AN		
-3	AD-3AN		
-3	P3Y-5	28B1000	1
LIST No.	MODEL	NEXT ASSY	QTY

REQUIREMENTS PER AIRPLANE
DUPLICATE -4 -5 -6 -7 -8 -9
DUPLICATE BY

-1	P2Y-5	28A5000	1
-1	P2Y-4	28A5300	1
-1	P2Y-4A	28B5300	1
-1	P2Y-5A	28B5300	1
-1	P2-5AN4	28B5300	1
-1	P2-5AN		
-1	P2-4AN		
-1	P3Y-5	28A1000	1
LIST No.	MODEL	NEXT ASSY	QTY

REQUIREMENTS PER AIRPLANE
DUPLICATE -4 -5 -6 -7 -8 -9
DUPLICATE BY

-0	P2Y-5	28A5000	1
-0	P2Y-5A	28B5300	1
-2	P2Y-5A	28B5000	1
-2	P2Y-5A	28A5300	1
-2	P2Y-5	28A5000	1
-3	P2Y-5A	28B5300	1
-3	P2-5AN4	28B5300	1
-3	AD-5AN4	28B5300	1
-3	AD-5AN	28B1000	1
-3	AD-4AN		
-3	AD-3AN		
-3	P3Y-5	28B1000	1
LIST No.	MODEL	NEXT ASSY	QTY

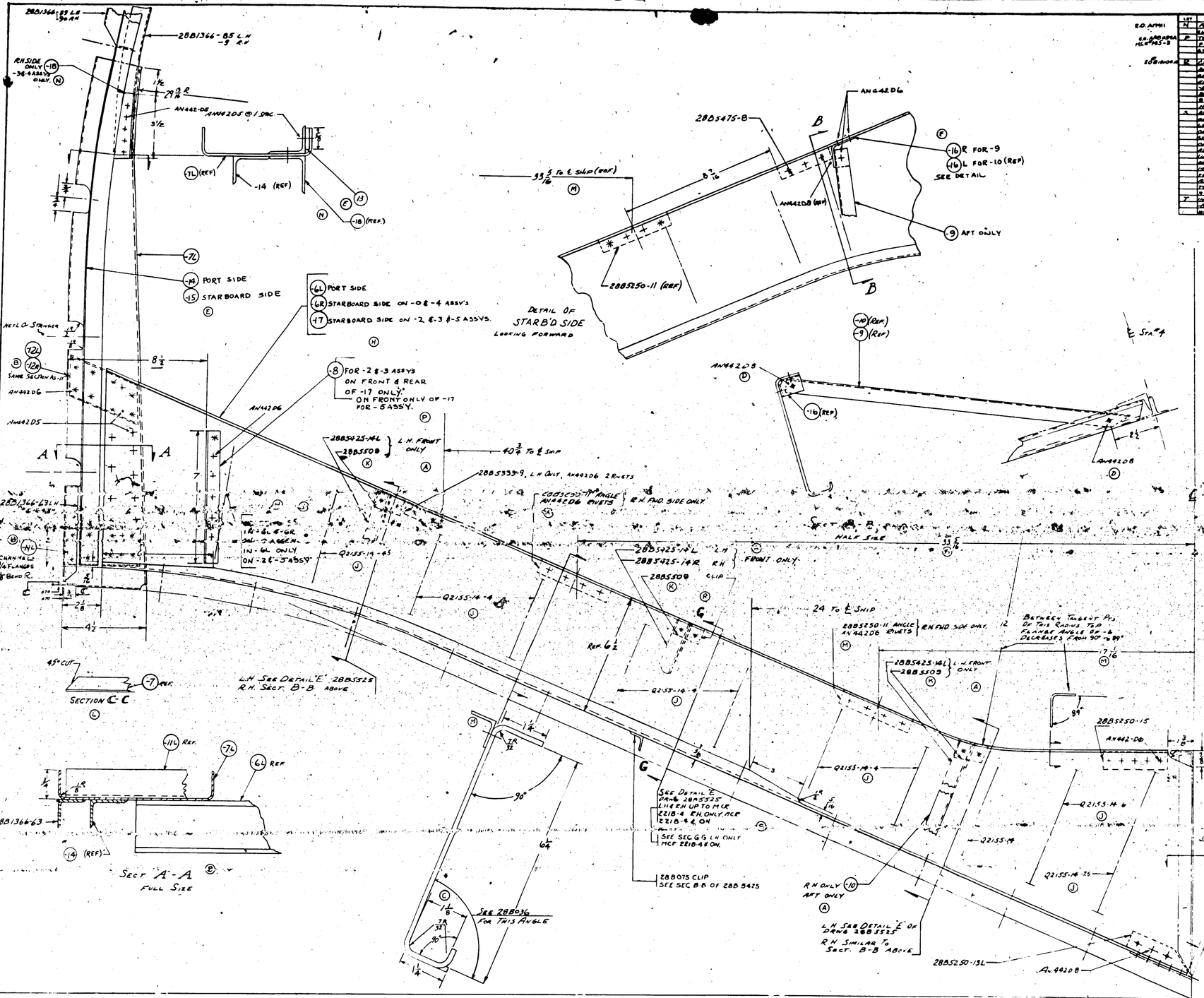
REQUIREMENTS PER AIRPLANE
DUPLICATE -4 -5 -6 -7 -8 -9
DUPLICATE BY

-1	P2Y-5	28A5000	1
-1	P2Y-4	28A5300	1
-1	P2Y-4A	28B5300	1
-1	P2Y-5A	28B5300	1
-1	P2-5AN4	28B5300	1
-1	P2-5AN		
-1	P2-4AN		
-1	P3Y-5	28B

LET	ALTERATIONS	DATE	BY
N	ADDED -9L CREATED -36 ASSY		
P	ADDED -9L CREATED -36 ASSY		
	TO INCLUDE -8 ASSY'S		
	FRONT ONLY OF -17 FOR -5		
	ASSY CREATED -FAWN		
R	CREATED - 60 ASSY FROM 45-3 ASSY FOR INCL OF -8 ASSY'S ON FRONT & REAR OF -17 ONLY. ON FRONT ONLY OF -17 FOR -5 ASSY.	4-6-60	BAKER

LET	ALTERATIONS	DATE	QT
A	ADDED -14L & -14R PNLS. PER DWG. SEC A-A		
B	CHANGED DIMENSION "J" TO 71/16 IN REF TO "K" DIMENSION		
C	CHANGED ADDITION TO ASSY'S -60 & -70		
D	CHANGED ADDITION TO ASSY'S -60 & -70		
E	ADD -17 CHL FILLER BETWEEN 2885251-101-5 & 2885251-101-9		
F	ADDED -16L REPLACING 2885541K-9L-ED 22330-A	11-15-61	1
G	-16 FROM SA TO ST-60-1 9061		
H, J	ADDED -2 ASSY'S & -11 QUIT-11-ST DID QUIT-11-S	7/17/62	
	QUIT-14-ST DID QUIT-14-ST		
	QUIT-14-S DID QUIT-14-ST		
	QUIT-14-A2 DID QUIT-14-A		
	QUIT-14-A DID QUIT-14-A2		
K	QUIT-14-ST DID QUIT-14-S	4-21-64	1
	TRIM-4 FLOW CHNL RIVET HOLES ALA'D FOR REMOVAL FROM 2B		
L	ADDED 2885508 FOR ASSY'S -60 & -70		
	REVISED -11	10-28-66	
A	ADDED 1" CUTOUT & SECTION C-C	9-8-67	
M	RELOCATED (2) 2885250-11 AND ADDED (1) 2885250-11	4-15-68	

E.O. APP'D
E.O. APP'D FOR MC EFFS-9
E.O. APP'D FOR EB 0180 A



-10	REF.	2A442D8	1
-00	CHG-1A	2A425D6	1
-3	PBY-3	2885000	1
-2	PBY-2	2881000	1
-4	28-32MC	2885500	1
-3	28-32MN	2885500	1
-3	PBY-3A	2885500	1
-0	PBY-3B	2885500	1
-0	28-32MC MC	2881000	1
-0	28-32MN MC	2881000	1
-2	PBY-2 MN	2881000	1
-0	28-32MC	2881000	1
PART NO.	MODEL	NEXT ASSY	QTY

REQUIREMENTS PER AIRPLANE

SUPERSEDES

REPLACED BY

1/32	1/16	1/8	1/4
1/2	1	2	4

STAMP PART NUMBER WHERE SHOWN

AN4420B			
AN4420D			
AN4420S			
Q2006G1-040			
2885075			
2881366 -90			
-91			
-92			
-93			
-94			
-95			
-96			
-97			
-98			
-99			
2881366 -100			
-101			
-102			
-103			
-104			
-105			

LET	ALTERATION	DATE	BY
A	ADDED 28B5425-16 & -17	4-1-40	NAA
B	REPLACED 28B5475 WITH 28B 5014 (INCORP. BC # 152101)	4-1-40	NAA
C	REPLACED 28B5425-3 WITH 28B5475-11L & 11R. (EC # 151789)	4-4-40	NAA
D	CHANGED CLAMP FROM -3 TO -3	9-30-40	BLADE
E	CHANGED RIVETS AS SHOWN ON DWG. CHANGED DETAIL → 9L TO -9L (DR)		
F	7/16 LWS 9A. E RIVETS - TOP WAS DAR. CHANGED CLAMP AS PER → DETAIL. ADDED SECTION LETTERS (FOR CLARITY)	10-24-40	BLADE
G	ADDED TO P/M 28B5425-16L & 28B5425-16R. REPLACED 28B5425 WITH 28B5425	10-30-40	BLADE
H	CREATED -3 ASSY FOR 28-5 MB. 28-5 MC & 28-5 MA REMOVED -18 I/A. 28B5350 (21 EA) & 5422 SEC "H" FROM DWG. # 151M FOR 28-5 MB, MC, MA. REPLACED WITH -9 I/A (-10 I/A) AN 442-DBT DR.	1-10-41	NEUMEIER
K	RELOCATED - 28101 FROM -8 TRIMMED FROM 45° EL. TO 30° INTERCHGE. FOR 1 SIDE ONLY. FOR PBY-5 CONT. 9876 ONLY. WT. CHG. NEGL.	1-14-41	
J	-10 RC-2455 (2) SEE D. WGN. & REQ. WT. CHG. NEGL.	1-21-41	
K	CREATED - 28M5 MB PBY-5 C-8 1876. W.C. 6.8 LBS. 9.2 E.B. SHTS		
L	-12 & (-10 (8) REQ'D) - 28M5 MB, MC, MA & -5 L/R SHTS		

VIEW SHOWN - PORT SIDE - LOOKING FORWARD

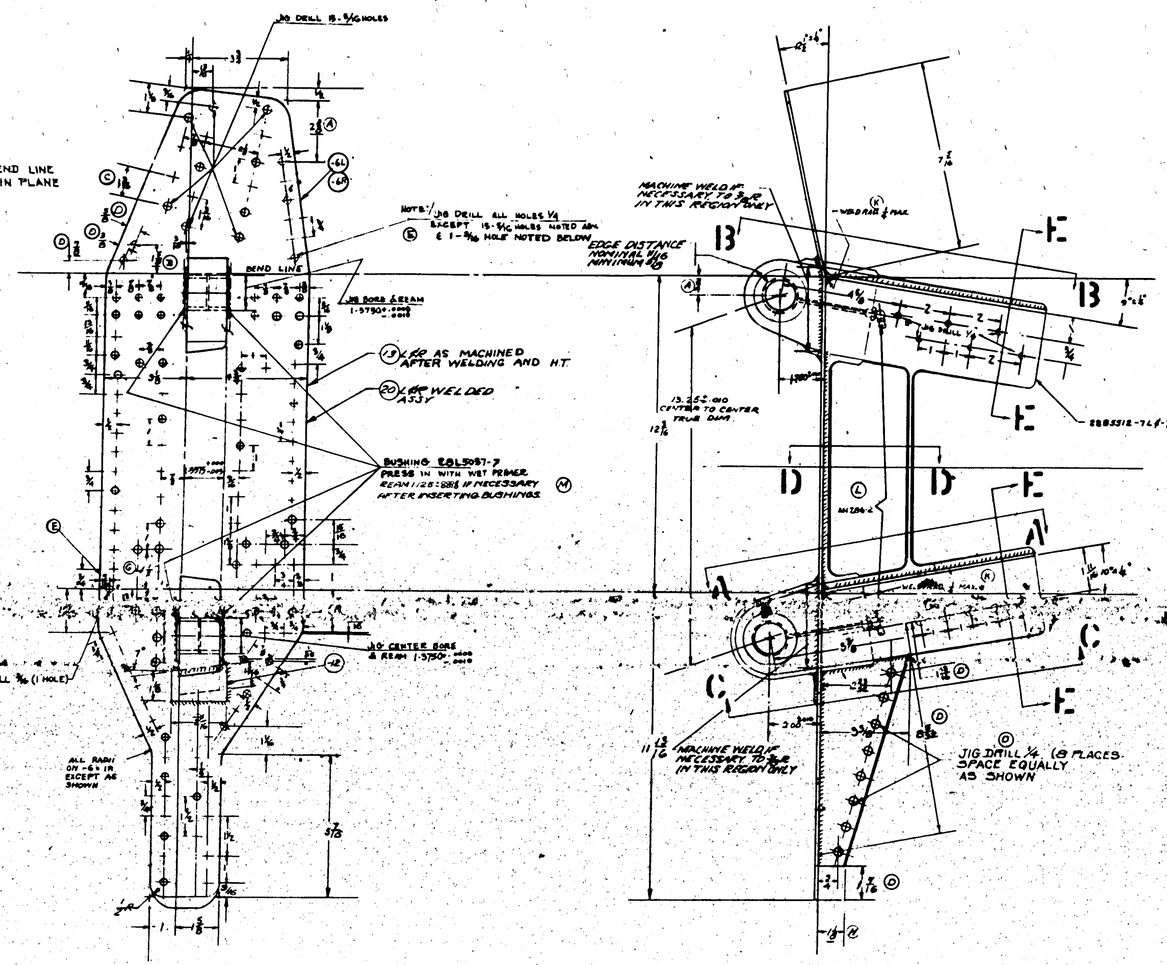
FOR OUTSIDE CONTOUR SEE 28B003
FOR STRINGER LOCATIONS SEE 28B1007
SEE 28B5425 FOR SECTIONS A-A B-B, C-C, F-F, G-G.
SEE 28B5450 FOR SECTION E-E

H.T. ALL COND. A MAT. PER SPEC. 3B-53
ALL RIVETS AN 442 D

+ = RIVETS, SIZE INDICATED AT INTERVALS BY THE FOLLOWING MARKING
+ · 1/2 ◆ · 5/32" ✳ · 3/16
⊕ · 1/4 ⊞ · 5/16 ⊕ · 3/8
✦ · 3/32

| | | |

NOTE:
ALL DIM'S ABOVE BEND LINE ARE ACTUAL DIM'S. IN PLANE OF PLATE - GL, R.



L H PART SHOWN

LET	ALTERATION	DATE	BY
	SO 28805		
	SO 28896		
	EO 32994		
	EO 33664A		
	EQ A1408		
	E.O.N. 5168		
	EQ A1510		

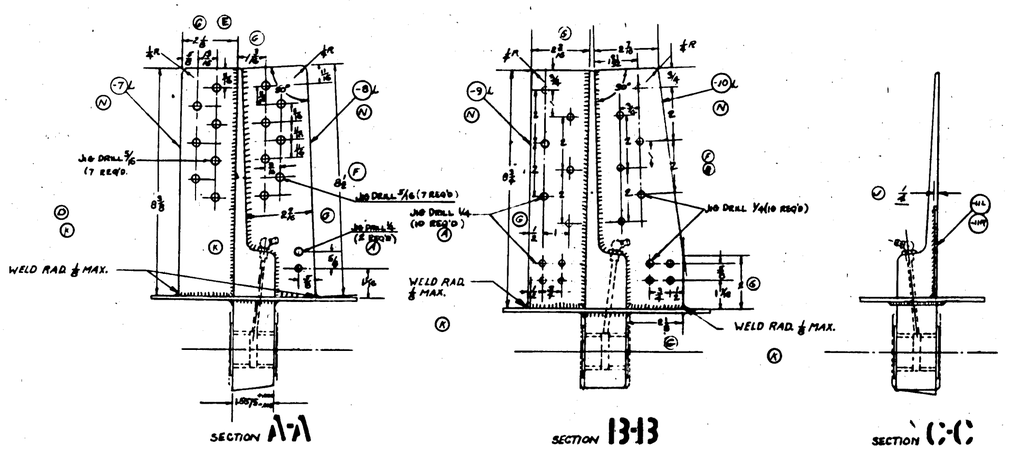
PBY-5A, 28-5AMC, 0A-10
PBT-5A, 28-5AMC, 0A-10
PBY-5A, 0A-10, 28-5AMC.
PBY-5A, 28-5AMC, 0A-10

LET	ALTERATIONS	DATE	BY
	REVISED NOTE "WELD 1/4 SMOOTH WELD OF TWO SIDES OF -3 BOSS WELDS OF BOTTOM OF -3 & -5		
	1/8 AT ATTACHMENT TO -1		
	ADDED NOTE "WELD ABOUT 1/8 DIA. TO BASE OF BOSS		
	ADDED NOTE "WELD ABOUT 1/8 DIA. TO BASE OF BOSS"		
	ADDED NOTE TO FIG. 3 VIEW "ASSEMBLE AS NECESSARY"		
	ADDED NOTE "DRILL AND REAM BUSHINGS AFTER INSTALLATION"		
	-1 WAS -1 -2 WAS -2 -3 WAS -3 -4 WAS -4 -5 WAS -5 -6 WAS -6 -7 WAS -7 -8 WAS -8 -9 WAS -9 -10 WAS -10		
	-1 WAS -1 -2 WAS -2 -3 WAS -3 -4 WAS -4 -5 WAS -5 -6 WAS -6 -7 WAS -7 -8 WAS -8 -9 WAS -9 -10 WAS -10 NO ST. CONT.		

EQ B61506

CHAMFER 45°

SECTION E-E



SECTION A-A SECTION B-B SECTION C-C

SECTION D-D

NOTE:
WELD ONLY ON SIDES DESIGNATED

FINISH:
-20 L.R-SB
-13 L.R-C-P-2 AP

HEAT TREAT.
-20 L.R - 175,000 PSI

NOTE:
IF BUSHINGS EBL5037-7 COVERS LUBRICATOR HOLE RUN THRU WITH DRILL AFTER INSTALL

FINISH CODE
Z CHEM. TREATMENT
P PAINTED
AP ALUMINUM PAINTED
C CHROMIC PLATE
SB SAND BLAST

PART No.	STOCK	MATERIAL	SPEC	LOT No.	QUAN. PER ASSY	REQ'D
					-0	
					-2	
					-3	
					-4	
					-5	

PARTS LIST PER ASSY

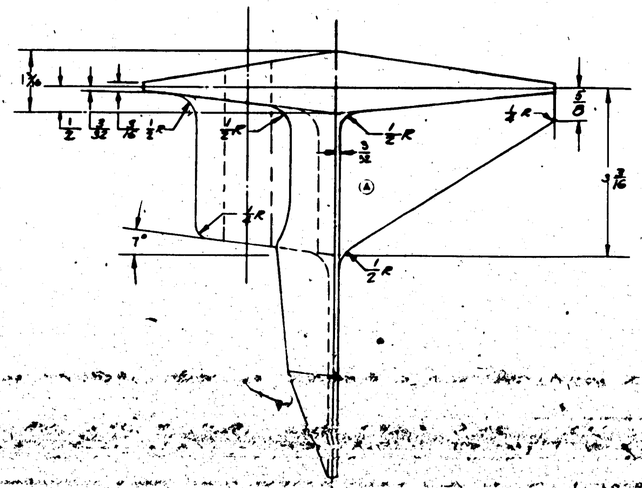
A.C.			
HEAT TREAT	NOTED	NOTED	
HEAT TREAT	FINISH		
NAME	FITTING - HULL LANDING GEAR - STA 7.2		
CONSOLIDATED AIRCRAFT CORP.			

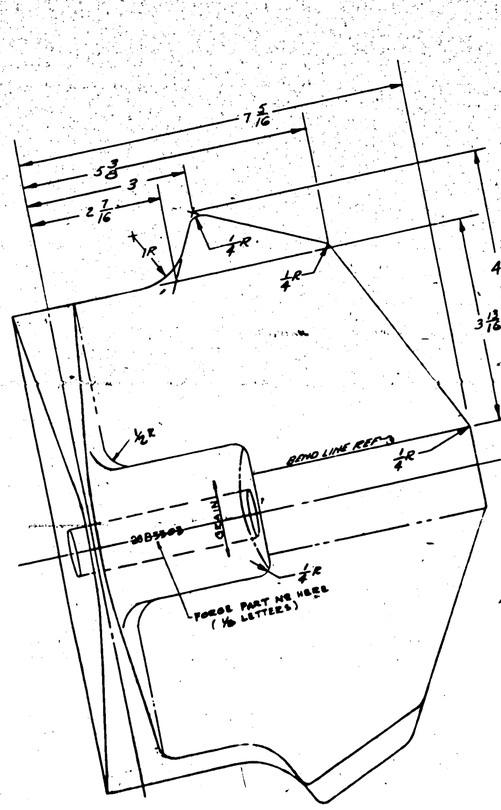
SCALE 6"=1'0"
DWG. NO. 28B5502-R
SIZE J
28B5502

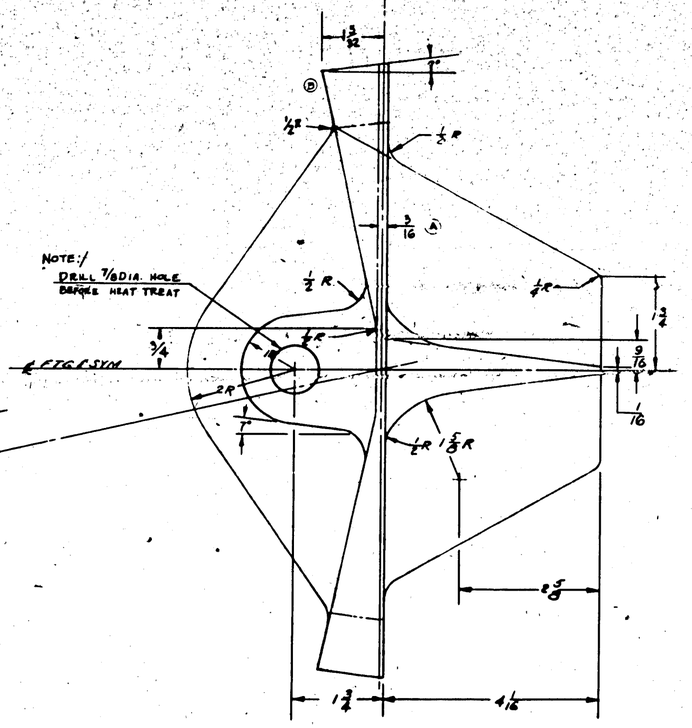
H-136

LET	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
A	ADD'L & FUNCTIONAL CHGS. FROM 1ST PROD. A/C TO W/B						
B	PLANER MACHINED						
C	CHGD. DIM. 4 3/16 TO 4 15/16						
D	ADDED NOTE & ALT'D ----						
	ALTERNATE WITCHS MTR.						

E.O.A.S.O.S.O.S.







NOTE

ALL CORNERS TO HAVE 1/16 R

Ⓒ FORGING TOL. +1/16 - 1/32

PARTS TO BE ANNEALED BY VENDOR, TOBE HEAT TREATED TO 175,000 P.S.I. BY PURCHASER

Ⓓ 4130 CHROME MOLY AN-QQ-S-684
4135 CHROME MOLY – ACCEPTABLE ALTERNATE.

FINISH

B SAND BLAST

LET	ALTERATION	DATE	BY	CLET	ALTERATION	DATE	BY
A	FITTING - FORGING PILOT MACH. THRU & BORED SURFACE AS NOTED						
	TOLERANCE CALLED TO XXX ALL DRAFT ANGLES CHGD. TO						
B	REVISED LENGTH 8⅝"						
	ADD LET. SPACE AND DIM.						
C	ADD 3/32 RAD. NOTED WAS 1/8 RAISE SPEC TO NOTED						
	ADDL MOVE NOTE CHG						

ECDC 2617
CA-10 20-DATE
FEB-28

E.C.O. 803-01

5⅞ 2 13/16 ¼R GRAIN 8 5/16 4 3/32 ¼R

¼R ¼R ¼R ¼R

9 9/32 6 BEFORE HEAT TREAT DRILL 7/8 THRU TO BORED HOLE - TAP 7/8 I.P.T. AN 286-3 (REF) SPOTFACE 1⅛ DIA Ⓑ

FORGE PART NO HERE (⅜ LETTERS)

5 7/32 2BB5507 5 1/16 4 1/32 9 7/8 2 3/8 1 5/32 1⅛ ¼R 1 5/16 2 3/4 DRILL 1¼ DIA HOLE BEFORE HEAT TREAT

A A B B C C

¼ 23/32 1 3/16 SECTION C-C

3/16 ¼R 2 1/2 5/32 1 3/16 SECTION B-B

3 1½ 9/32 7/16 3/8 2 3/16 SECTION A-A

FINISH SB-SAND BLAST

NOTE

ALL RADII ½ UNLESS OTHERWISE NOTED
ALL DRAFT ANGLES 7°
3/16 MIN. THICKNESS EXCEPT AS NOTED
ALL CORNERS TO HAVE ⅛ RADII
PART TO BE ANNEALED BY VENDER; TO BE HEAT TREATED TO 175,000 PSI BY PURCHASER

MATERIALS NOTE
(1) SAE 4135 CHROME MOLY STL AC SPEC 57-009 B
OR (2) SAE 4140 CHROME MOLY STL AN-QQ-S-725
OR (3) SAE X4130 CHROME MOLY STL AN-QQ-S-684

Ⓒ

24	SAHN	AN833616	8
24	SAHC	AN833616	8
REQ'D	SYM	SPEC.	NO.

REQUIREMENTS FOR AIRPLANE
REPLACED 248
REPLACED BY ASG 204

	FORGING	STEEL CR. MOLY.	NOTED						
PARTS NO.	DESCR.	MATERIAL	SPEC.	PARTS LIST FOR ASSY.					
					-0	-2	-3	-4	-5
				REQ.	2	2	2	2	2

A.C. DRWG 175,000 PSI HEAT TREAT | SB FINISH | 5/16 | 1/16 | 1/16 | 1/16 | 1/16

NAME FITTING - HULL, UPPER MAIN STRUT - FORGING
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

GRP NAME J | 2BB5507

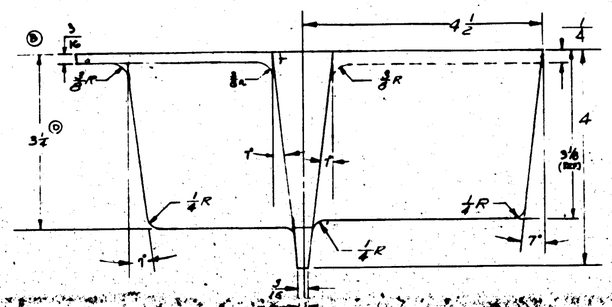
H 138

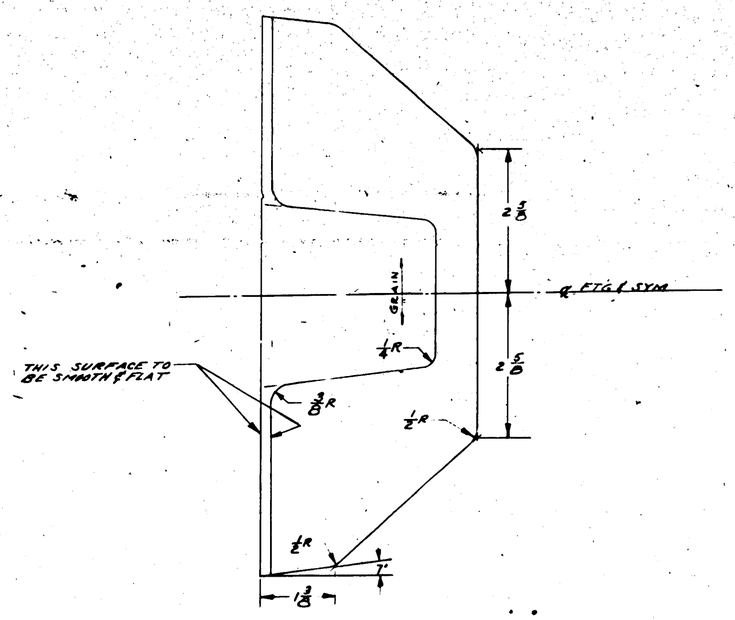
LET	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
A	1/16 DIM WAS 1/8	6/4/46	J.E.C.				
B	5/16 DIM WAS 1/8						
C	CHG DRAFT & FINISH PER "F"	10/7/46	[illegible]
D	CHANGE 2 3/8 TO 2 5/8, 1/16 TO 1/4	9-23-47	[illegible]
E	ADD ARROW, 2 PLACES. ADD NOTE "ALL CONTOURS TO BE 1/16 R UNLESS OTHERWISE SPECIFIED." ADD NOTE "THIS PART TO BE HEAT TREATED TO 125,000 P.S.I. BY PROCEDURE" FORM NOTE "PART TO BE ANNEALED BY VENDOR" TO BE REMOVED ON FINISH CA.	9-30-48	STEVE
F	ADD PARTS NOTE NO WT CHG	2-20-50	[illegible]

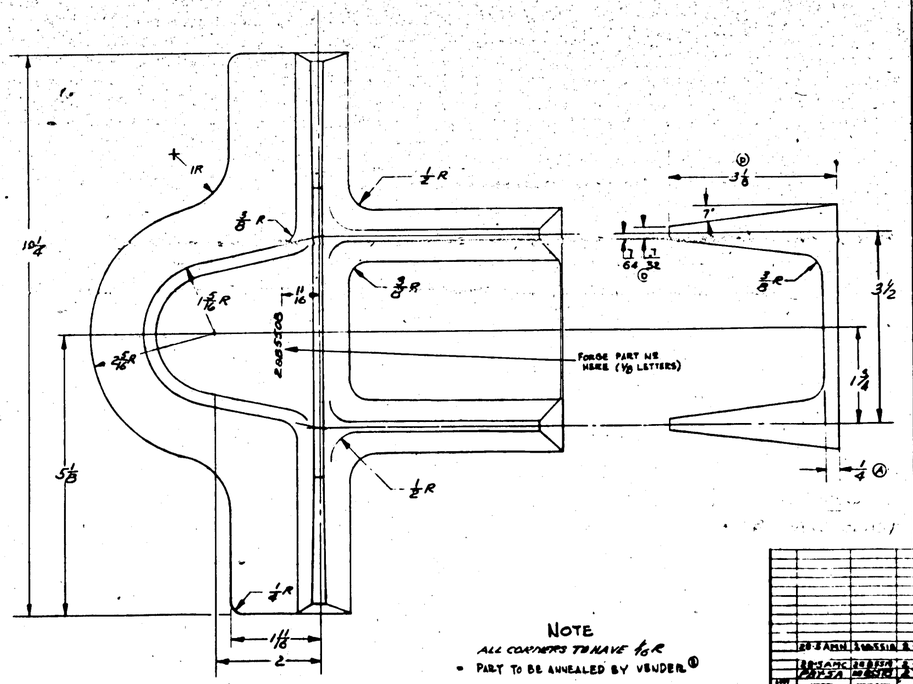
Eo 32842

EAC 28.6006 Eo 41, 109 Sh. 1 Sht Incl

W.O. A68110







NOTE

ALL CONTOURS TO HAVE 1/16 R

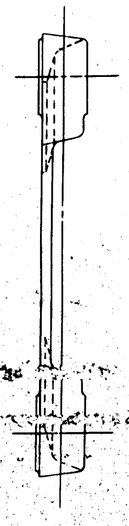
- PART TO BE ANNEALED BY VENDER.

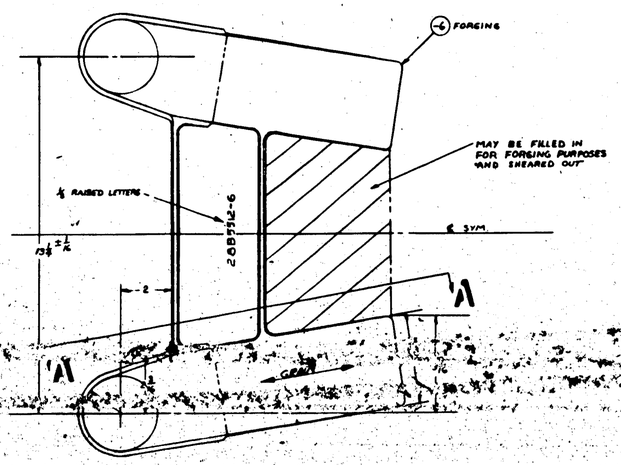
(F) ALTERNATE MATLS. — X4130 CHROMOLY AN-QQ-S-684 OR 4135 CHROMOLY STEEL MAY BE USED.

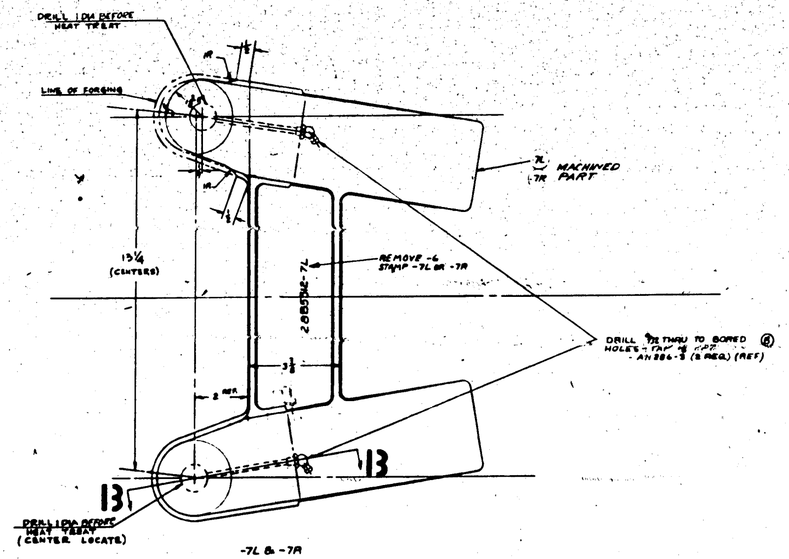
| | | | | | |

MKT	ALTERATION	DATE	BY
A	CHGD R ON [illegible] WAS 1/8 R ON FACE OF DWG	12-8-41	[illegible]
B	CHGD NOTE FROM "DRILL 21/64---TAP 1/2-20 NF-3(A)" TO "DRILL 33/64---TAP 3/4-16 NF-3(A) THD"	5-1-42	[illegible]
C	REMOVED 7R TOLERANCE BANDED	10-[illegible]-42	[illegible]
D	ADDED NOTE "X" & WT. [illegible]	10-[illegible]-42	[illegible]

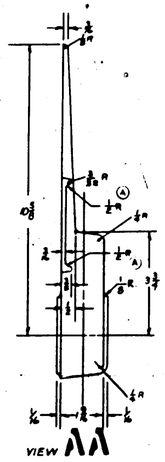
E.O. AGGIE PB7-2A
E.O. SAME § AA-18
(FORGING NOT AFFECTED)







-7L & -7R
MAKE FROM -6
L.H. SHOWN
R.H. OPPOSITE



NOTES:
① ALL RADII EXCEPT AS NOTED ⅛R
② ALL CORNERS TO HAVE ⅛ R
③ ALL DRAFT ANGLES 7°
④ FORGING TOL ±1/16 - ⅛ 6 FIN MACH TOL ± 1/32
⑤ 4130 CHROME MOLY AN-QQ-S-7 2B OR 4135 CHROME MOLY - ACCEPTABLE ALTERNATE.

| | | |

LET	ALTERATION	DATE	BY
A	-2 ASSY Made per EO 13686	7-7-41	
B	-2 ASSY Made per EO 13686	7-7-41	
C	Increased fit tol. Added 64 fits	8-14-41	
	Added note & called out MS20470 rivets		
	Added Dim. & Note (.040 MAX.)		
	Changed MS20470 rivets to AN442 rivets		
D	EO 13782-2 was 3 SEPARATE ASSY DRGS	8-24-42	
E	CREATED -2 ASSY & ADDED		
F	-3 ASSY - ADDED	10-26-42	
G	ADDED DETAIL F	2-20-43	
H	MADE FOR -10Y-2-A3AT X 9 WAS MS20401A3 AL AL STRU.		
J	REVISED -2 ASSY PER EO 13782 DETAILS & F.E. APPROVED	5-22-43	
K	REINSTATED -2 ASSY CONSISTING OF -CR,-FR,-BR -2 FOR -11L & -11R (2 REQ) -11 F 28B5509 (2 REQ) REQ'D PER (J) F MP-9 ACTIVATED & REVISED PER EO 15180 REQ'D DETAIL F	8-24-43	

LET	ALTERATION	DATE	BY
L	INCORPORATED ECO 6534 AT REV. 'L' OF 28B5516 & 28B5517 ASSY DRGS.	11-29-43	
M	WAS 28B5516-1 & -2 REVISED PER EO 15180 REPRESENTING BALANCE FROM		
	DELETED TO BE BUILT ADDED 1/64 DIA. AND REVISED NOTE FROM "FLUSH" TO "FLUSH OR PROUD"		
	FRAME TO BE FLUSH WITH SKIN AT A		
N	NO WT. CHG. DETAIL 'GG' WAS DETAIL 'EE'		
	IN R/H -10Y-1 MOTOR WAS -Y-2-A3AT-A3 NOTED WAS -Y-2-A3AT-A3 - L.H. NOTED WAS -Y-R-A10TT-A3 TO FACE ADDED MAX. MOTOR I.D.'S.		
	NO WT. CHG.		

FULL SIZE

-10L REF.

45°

28B5509 REF.

28B075 REF.

FULL SIZE

DET: D

FULL SIZE

(REF) 28B5509

FULL SIZE

AFT

VIEW LOOKING INBD.

DET. F

A AIRPLANE

NOTE:
THIS CORNER TO BE FLUSH WITH TOP OF BELTFRAME (REF) REF.) (FOR -2 ASSY. ONLY)

TOP OF BELTFRAME

SEE DET: D

28B5509

(REF) 32F785-3

DETAIL G-G
SHOWING 32F785-3 INSTALL. -3 ASSY ONLY
STBD. SIDE VIEW LOOKING AFT.

QB100-6-8
AN 3-6
AC 365-1032
4 PLACES

-11L - 11R START AT THIS POINT

-12R SAME AS 28B1166 -12 LH -13RH
-12L EXCEPT LOWER END CUT OFF IN WAY OF FL. FRAME

-7L
-7R

½ R.

¾ R.

A A

⅜ GUIDE PIN HOLE

QB10-6-8D
AN3-6
AC365-1032
(6 PLACES)

-6R ⅞ BEND RADII
-6L

41⅛

-11L

JOGGLE .070

4

B

5

5

32F785-2
BRACKET ASSY.
RH SIDE ONLY.
ON FWD FACE
SEE DET E-E
FOR -2 ASSY
SEE DET GG
FOR -3 ASSY

C½

SEE DET: D

28B5509

Q2155-14-5
(4 REQ'D.)

15¼

4¾

4

C

14¾

-11L REF.
-7L REF.
¾
¾
⅛ REF.

SEC: A-A

41⅛ (REF.)

THIS CORNER TO BE FLUSH WITH TOP OF -15 (REF.) (FOR -2 ASSY.)

28B075

-10 (FOR -2 ASSY.)

24

32F785-2 (REF.)

14

AN442-D8 3 REQ'D. (FOR -2 ASSY.)

¾ FLG.

⅛

-8R
-8L

SEC: B-B

DETAIL E-E
(SHOWING 32F785-2 INSTALL. ON -2 ASSY.)

1⅞

SEC: C-C

VIEW LOOKING FWD.

B.L. OF AIRPLANE

NOTE

FOR OUTSIDE CONTOUR SEE 28B005
FOR STRINGER LOCATIONS SEE 28B1007
ALL RIVETS AN 442D
ALL BEND & CUTOUT RADII ⅛ UNLESS OTHERWISE NOTED

(M) MATERIAL NOTES:-
1. MAT'L. FOR -10 MAY BE:
(A) Y-E ALLOY 19, OR
(B) KE AG 19, AL. AL EXTR. SPEC. QQ-A-354-T
2. MAT'L. FOR -13 MAY BE:
(A) Y-A ALOTT 2 3/4, OR
(B) KE 1852 2 3/4, AL. AL. EXTR. SPEC. QQ-A-354-T

FINISH
F ZINC TRI-V
P NO PRIMER
AP ALUMINIZED PRIM.
C CHROMIC PLATE

| | | |

LET	ALTERATIONS	DATE	BY
	MARK FROM 28B5503 (PART OF C/W NO 8 (1) SET 3 (RH) SHIPS 8/11 OR LINE 15 & 16 — IN D/M NO WT CHG.	8-1-[illegible]	

LET	ALTERATIONS	DATE	BY
A	DIM. WAS 3/8 — NOW 1 1/8 REMOVED & REVISED SHAPE	8-28-41	[illegible]
	(E SPOTFACE) ADDED D-178		
BY	DIM. E & F CHG. DIMS. WAS 3/4 & 1 — NOW 1 1/2 & 1 1/4 WAS 3/4 & ADDED 1/4 R	2-[illegible]-42	[illegible]
	RADII MODEL P&T-5A		
	28-3AMC & DA-10		
C	REVISED DRAFT PER DWG.	1-29-43	HILTZ
D	CORRECTED INC. BY E.O. 6995 A	7-24-43	Chase
E	ADDED "FOR(F) MARKS" TO (F) & (G) "SPOT FACE"	7-24-43	FRANZ
F	ADDED (F) NOW SPOT TO NOW AT	7-24-43	HILTZ
G	NOTE "TIE DRILL 5/16 DIA (3 HOLES)" WAS "TIE DRILL 5/16 DIA (3 HOLES)"	8-14-43	DALY
H	DIM. E WAS 1/8 — NOW 1/16	11-16-43	Stroud
J	"SPOTFACE 5/8 DIA." WAS "SPOTFACE 5/8 DIA."		
	"SPOTFACE 5/8 DIA." WAS "SPOTFACE 5/8 DIA."		
	LOCATE TO DIM. B2 ALSO ADDED NOTE "DRILL ... MARK"		
	WAS "DRILL ... MARK" ADDED 3 (REF)	12-[illegible]-43	STROUD
K	NOTE "JIG LINE REAM LOG25"		
	REAM .875 IF NECESSARY AFTER INSERTING BUSHINGS		
	WAS "JIG LINE REAM LOG25"	2-15-44	SMITH
	NO WT CHG		
L	DIM 5/8 E(C) WAS 11 1/2 (L) ADDED		
	DIM 5/8 E(C) NO WT CHG	5-8-44	HILTZ
M	DIM. A WAS 2 3/8 ADDED DIM. CHART ADDED -10 1/2A		

27671

EO 34396

EO 34396 ● P&T-5A, 28-3AMC, DA-10

F.D.C

F.O.A 8429-ALL

F.D.C. 18818

K 28 AMC P&T-5A

D DA-10

10 A 28278 ⊙

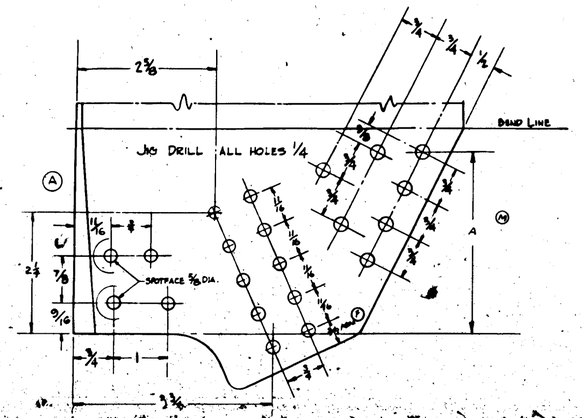
(FAIRING NOT AFFECTED)

F.O.A 30230

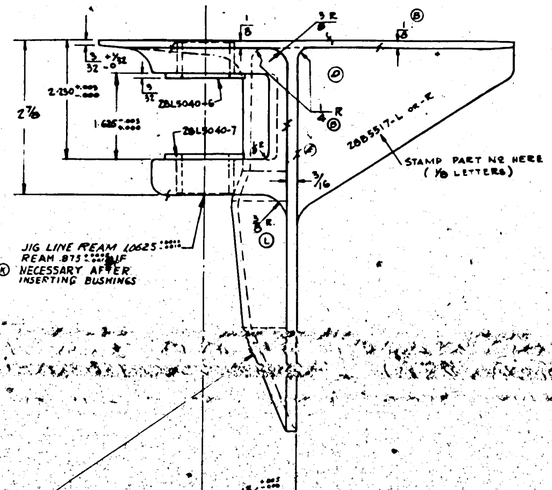
P

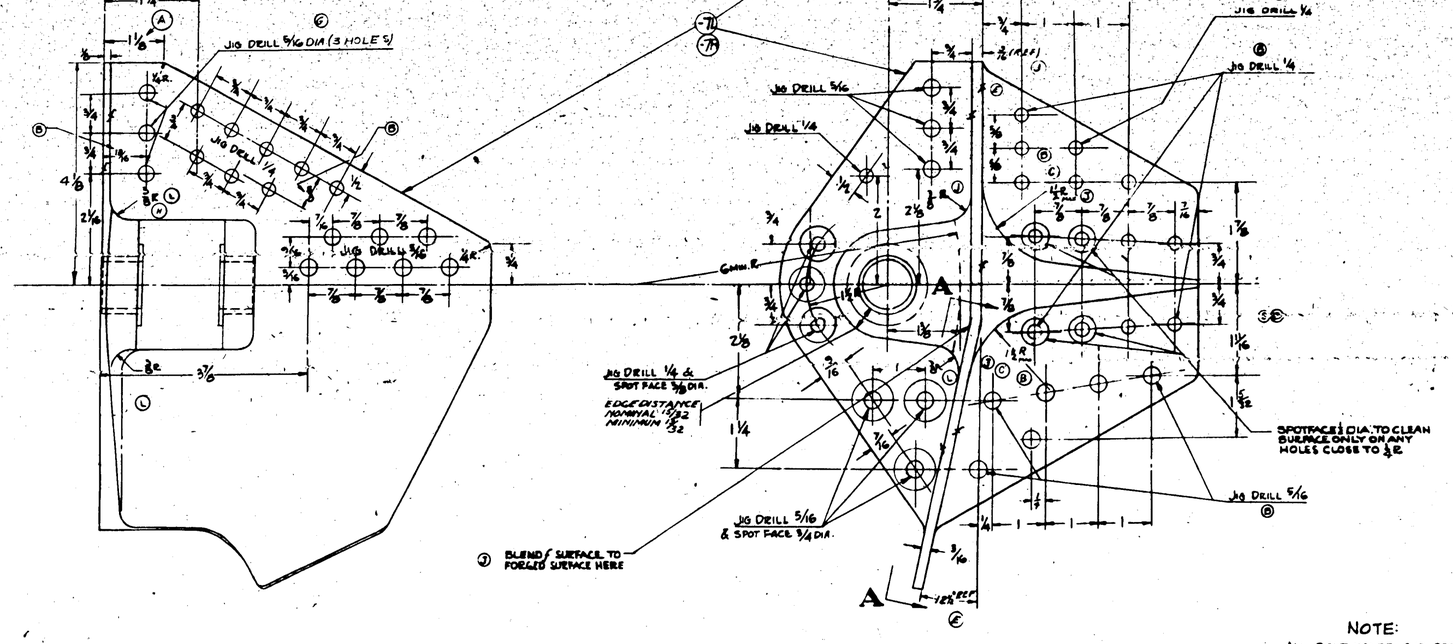
EOA 33870 (FORGING NOT AFFECTED) ⊙

F.O.A 30396



VIEW A-A





NOTE:
ALL BOLT HOLES AND SPOTFACES TO BE JIG LOCATED
L.H. SHOWN
R.H. OPPOSITE

FINISH CODE
Z ANODIC TREATMENT
P P-37 PRIMER
ALM ALUMILITE PRIMER
C CADMIUM PLATE

LET	MODEL	PART NUMBER	QTY
- E	28 SAMN	28D5517-1	1
- C	28-3AMN	28D5517-3	1
- B	28-3AMC	28D5517-5	1
- A	28-3AMC	28D5517-7	1
- 5	P&T-5A	28D5517-9	1
- 6	P&T-5A	28D5517-11	1

REQUIREMENTS FOR AIRPLANE
DISPLACED — 936
DISPLACED BY — DWG. NO.
LOC. OF STATIONS SYM. NO. — STATION — 410
STAMP PART NUMBER WHERE SHOWN — 12'-1-0"

-10A MARK FROM 28B5503 (C/W NO 6 (1) SET 2 (LH) SHIPS) — P&T-5A
-10A MARK FROM 28B5503 (C/W NO 6 (1) SET 2 (LH) SHIPS) — CHARLOTTE
-7A MARK FROM 28B5503 (C/W NO 8 (1) SET 3 (RH) SHIPS) — DAY-5A
-7M MARK FROM 28B5503 (C/W NO 8 (1) SET 3 (RH) SHIPS) — CHARLOTTE

PART NO.	STOCK	MATERIAL	SPEC	LA	LB	LC	LD	LE	LF	LG
		PARTS LIST FOR ASSY.		DEC	DEC	DEC	DEC	DEC	DEC	DEC
				-10	-8	-5	-4	-3		

AS NAVY — BOAT TREAT — -7, C-P-2AP — FINISH — DRAWN 1-7-42 — CHECKED — DATE — BY — CHIEF DRAFTSMAN — DATE — BY

NAME FITTING - HULL - BULK'D 65 UPPER STRUT

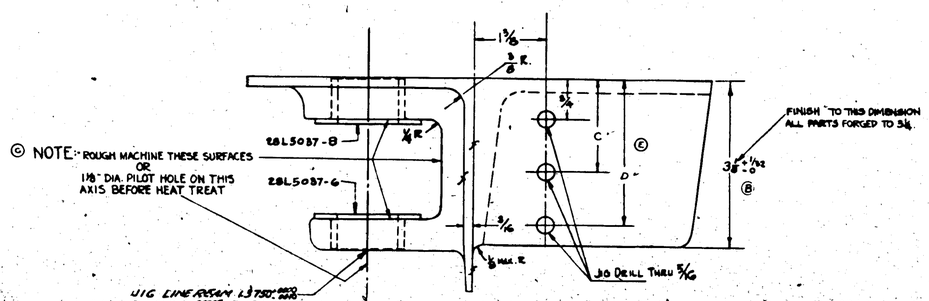
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

DWG NO. 28D5517-E — SIZE J — 28D5517

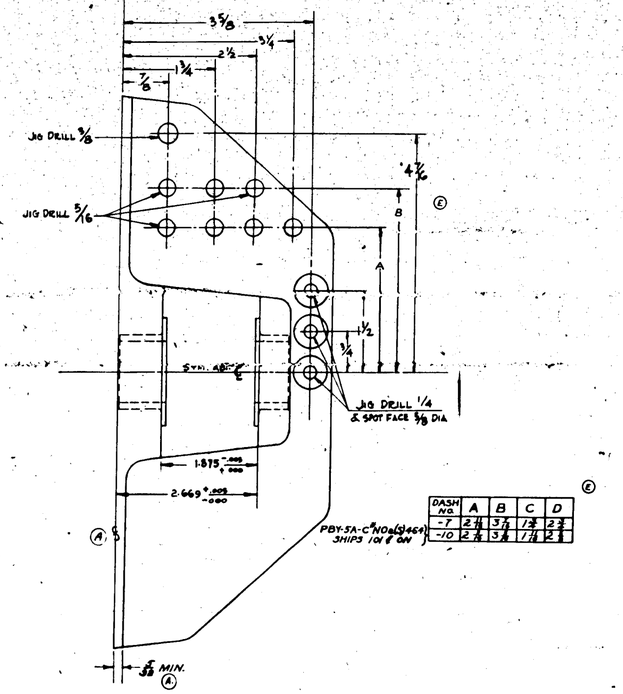
H-142

LET	ALTERATION	DATE	BY
A	ADDED FINISH MARKS "F" ON FACES "B" AND "C" OF BOSS	1-9-41	
B	ADDED DIM. "E"	2-24-41	
C	ADDED NOTE "DRILL & REAM WITH 5/8 REAMER OR 1/8 UNDERSIZE DRILL ..."	8-11-41	
D	ADDED NOTE "DRILL & REAM 1.125 DIA HOLE ..." NO WT. CHG.	11-6-41	
E	1/8 R. ADDED -10 MARK FROM RABBEB, LIMITED. -7 & -10 DIM. A WAS 4 1/16, A WAS 3 7/16, C WAS 1 3/16, D WAS 3 1/16. ADDED DIM CHART. NO WT. CHG.	2-26-42	

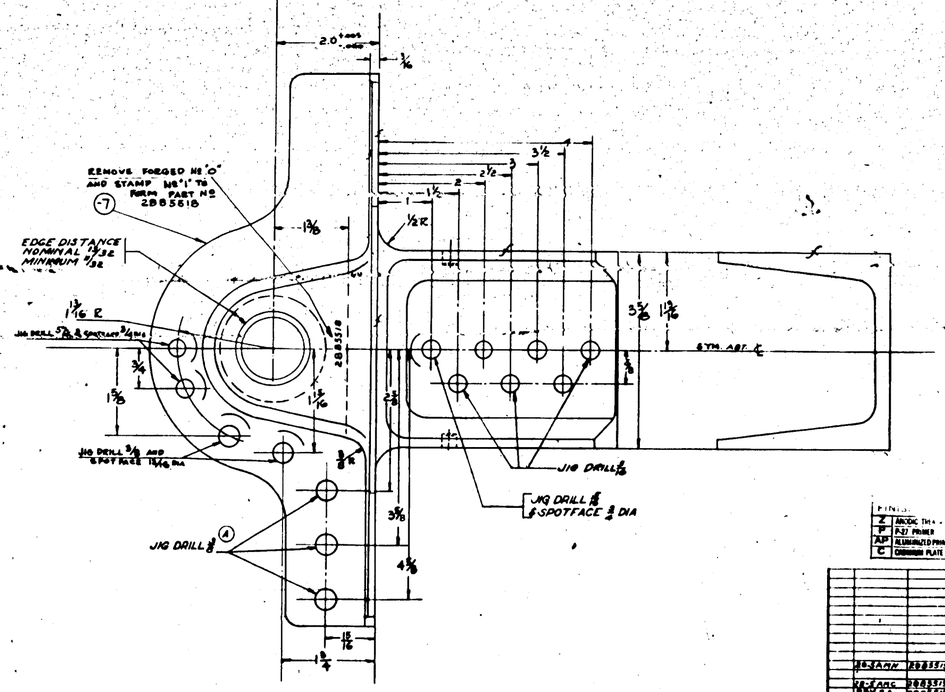
AN-1, 2S AMC, PBY-5A
EO-A12853
AN-10, 2S-3 AMC, PBY-5A
EO 25006
AN-10, PBY-5A, 28-3 AMC
EO A30697
(FORGING NOT AFFECTED)
E.O. 823093



© NOTE: ROUGH MACHINE THESE SURFACES OR 1/8" DIA. PILOT HOLE ON THIS AXIS BEFORE HEAT TREAT



DASH NO.	A	B	C	D
-7	2 1/4	3 1/2	1 3/8	2 3/8
-10	2 1/4	3 1/2	1 1/4	2 3/8

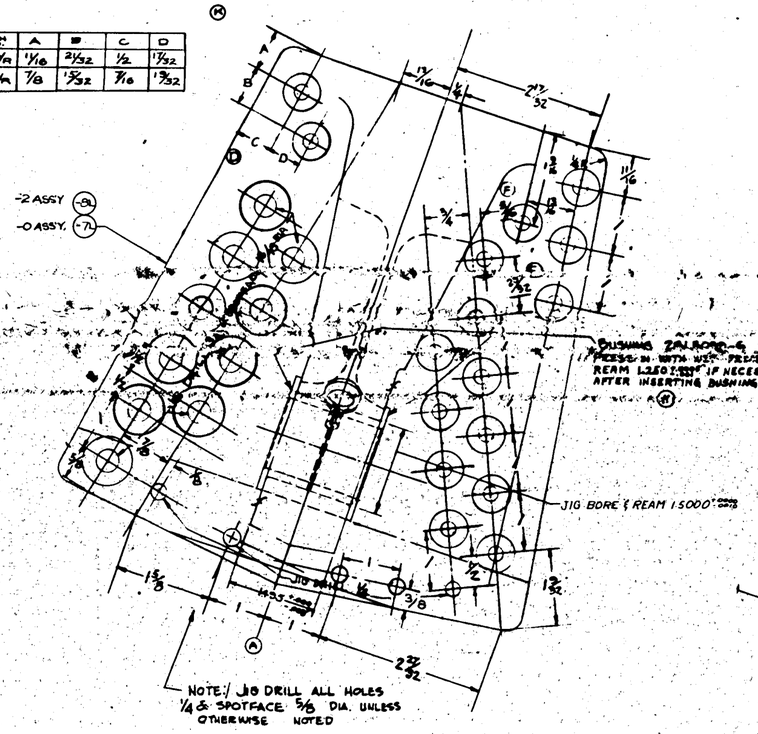


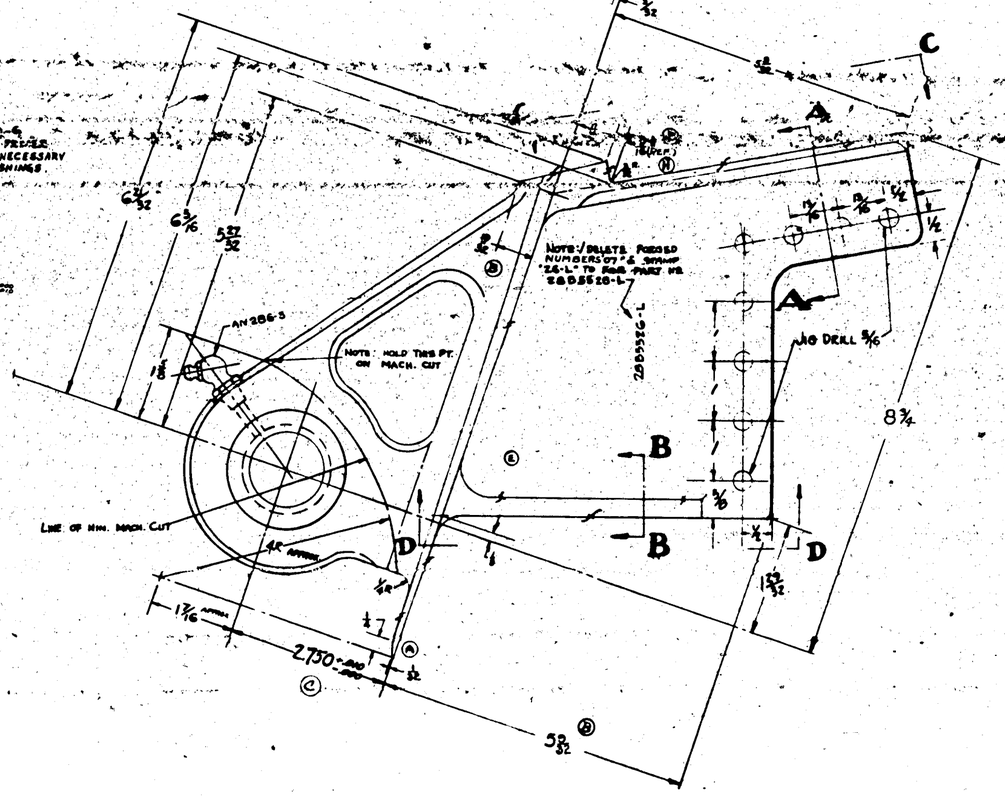
NOTE
ALL BOLT HOLES & SPOT FACES TO BE JIG LOCATED
© HEAT TREAT TO 170,000 TO 190,000 P.S.I. BEFORE FINISH MACHINING.

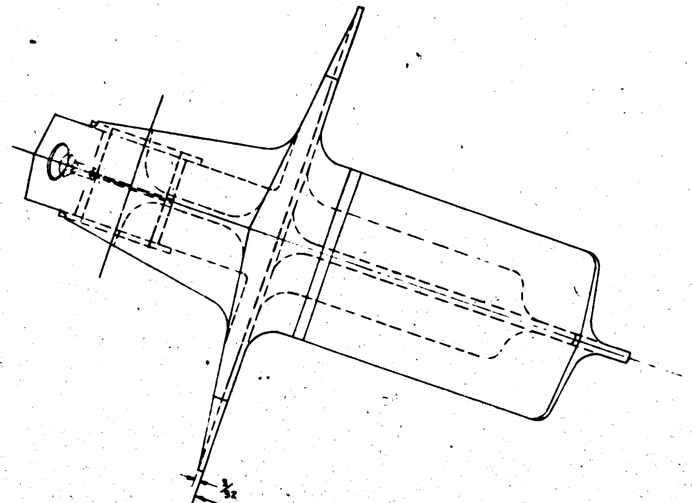
FINISH	
Z	BRODIC 744
P	PJ7 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

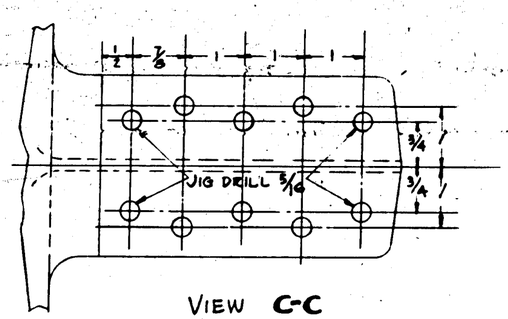
| | | |

DASH NO.	A	B	C	D
-7 1/2	1 1/16	2 1/32	1/2	1 7/32
-8 1/4	7/8	1 5/32	7/16	1 3/32

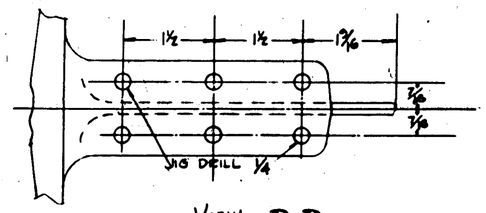




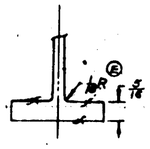




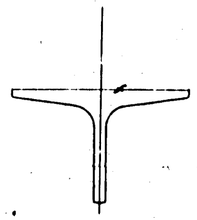
VIEW **C-C**



VIEW **D-D**



SECTION **B-B**



SECTION **A-A**

FINISH CODE	
C	CADMIUM PLATE
P	NO PAINT
AP	ALUMINUM PRIMER
C	CHROMATE PLATE

NOTE

ALL RADII 1/2 UNLESS OTHERWISE NOTED

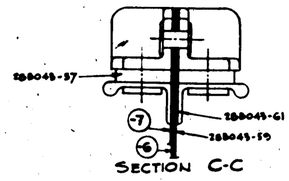
IF BUSHINGS ZBL6036-6 COVER LUB. HOLE RUN THRU WITH DRILL AFTER INSTAL.

LET	ALTERATION	DATE	BY
J	PHOTO STAKED		
K	FOR P.R.#5A (MARTIN-BALT.) CREATED -2 "A" ASSY NUMBER WAS NOT USED: -8 1/4 WAS 8 -7 1/2 WAS 7 AND 0 -8 1/4 WAS 8 FROM AB85727 (REV.) FOR -7 1/2 DIM "A" WAS 1 1/16 "B" WAS 2 1/32, "C" WAS 1/2 "D" WAS 1 7/32 ADDED DIM'S FOR -8 1/4 "A" 7/8, "B" 1 5/32, "C" 7/16, "D" 1 3/32		

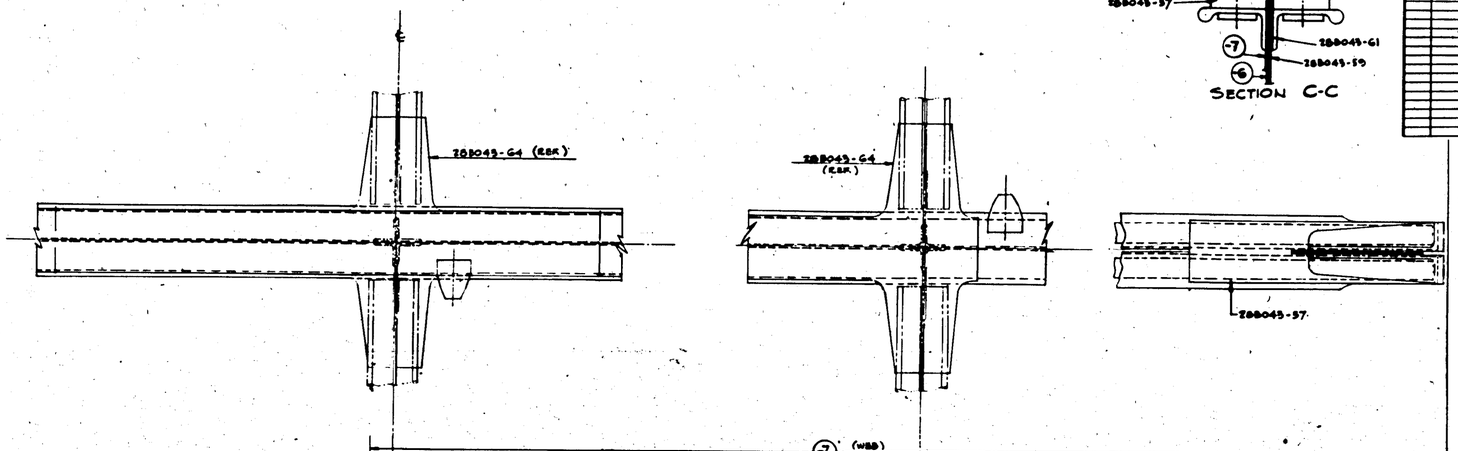
| | | |

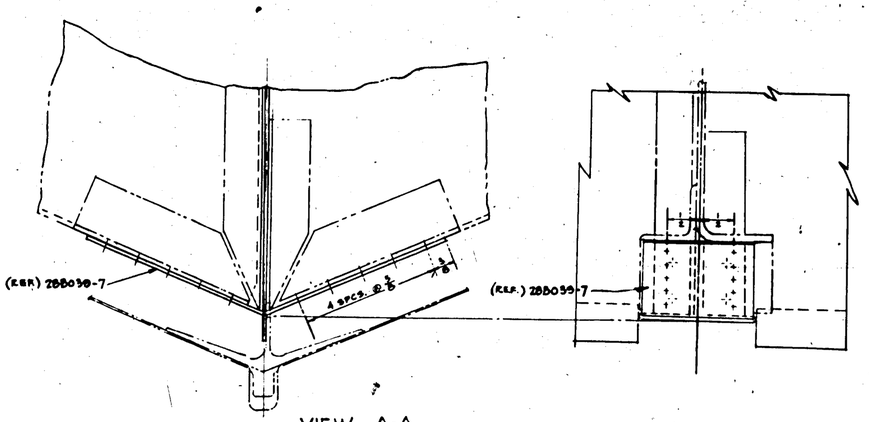
LET	ALTERATION	DATE	BY
A	ADD [illegible]		
B	CHANGE 10 1/2 DIA. TO 10 3/4 DIA. AND 19 DIA. TO 19		
C	ADD .063 GAGE WAS .070		
D	CHANGED CODE FROM 3A, 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 5H, 5J, 5K, 5L, 5M, 5N, 5P, 5Q, 5R, 5S, 5T, 5U, 5V, 5W, 5X, 5Y, 5Z, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H, 6J, 6K, 6L, 6M, 6N, 6P, 6Q, 6R, 6S, 6T, 6U, 6V, 6W, 6X, 6Y, 6Z, 7A, 7B, 7C, 7D, 7E, 7F, 7G, 7H, 7J, 7K, 7L, 7M, 7N, 7P, 7Q, 7R, 7S, 7T, 7U, 7V, 7W, 7X, 7Y, 7Z,

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY

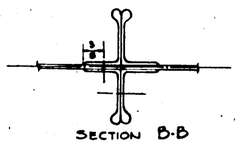


SECTION C-C





VIEW A-A


SECTION B-B

NOTE

FOR ANY INFORMATION NOT GIVEN ON THIS DWG. SEE 288043 ASS'Y. DWG

THIS D'WG. SHOWS THE DIFFERENCES BETWEEN PBY-5A (AMPHIBIAN) & 288045-555 (PBY-5)

FINISH CC	
Z	ANODIC TREATMENT
P	P-67 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

+ = RIVETS (SIZE INDICATED AT INTERVALS ON THE FOLLOWING SYMBOLS)

✦ - 1/8	✦ - 5/32	✳ - 3/16
⊕ - 1/4	⊕ - 5/16	◆ - 3/8

ALL RIVETS TYPE D

H 146

PART NO.	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4	-5
		PARTS LIST FOR ASSY.		QTY	1	1	2	2

-2	SHIFT NONE	Z-PAP			
	SHIFT TREAT	FINISH			

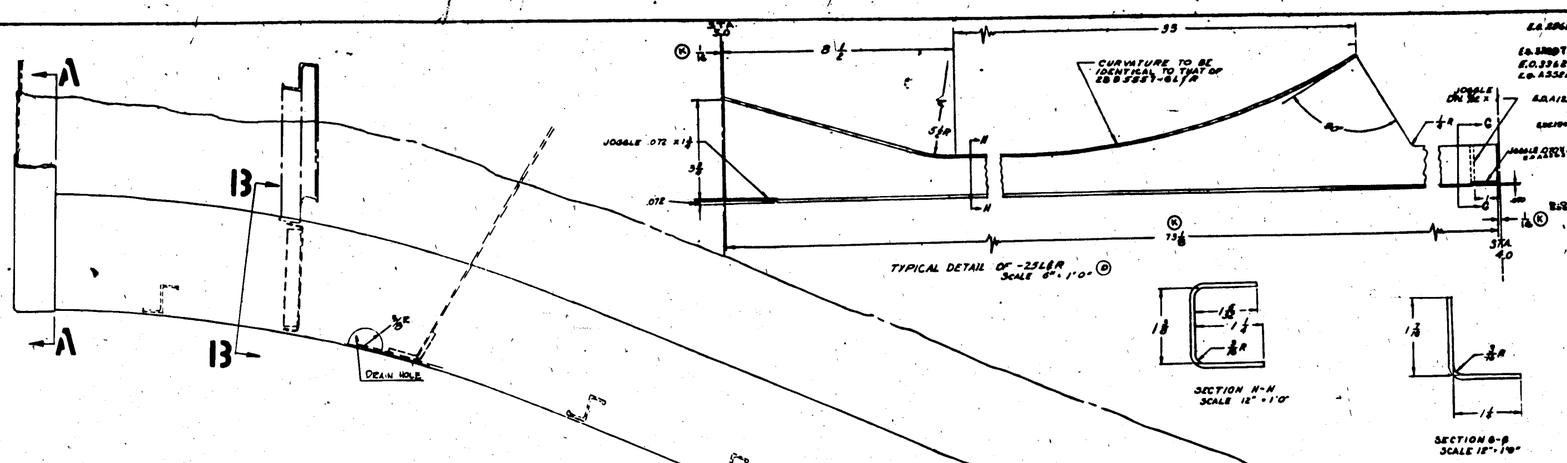
NAME KEEL TRUSS HULL STA.3 - STA.4

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

CODE IDENT. J

SIZE 28B5543

REV R

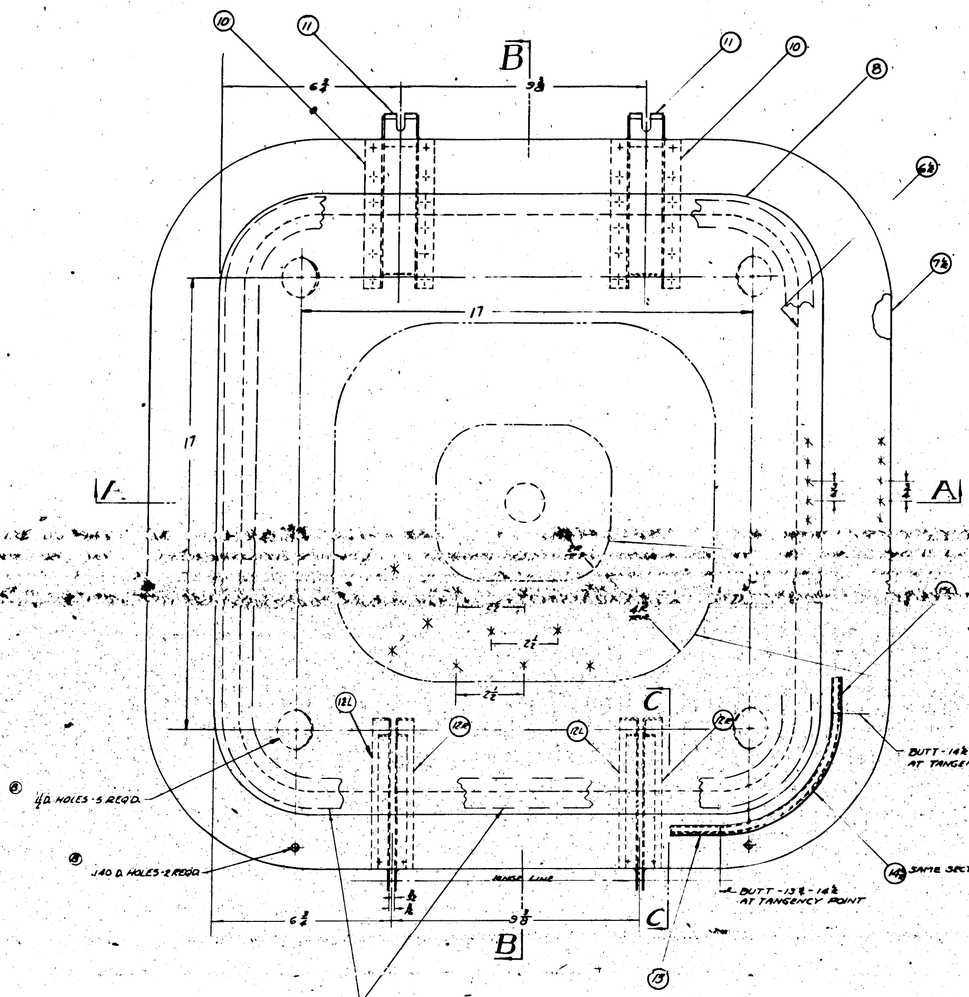


LET	REVISIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
	E.O. 33689						
	E.O. A3585E						
	E.O. A3585E						
	E.O. 33689						
	E.O. 33689						
	E.O. A3585E

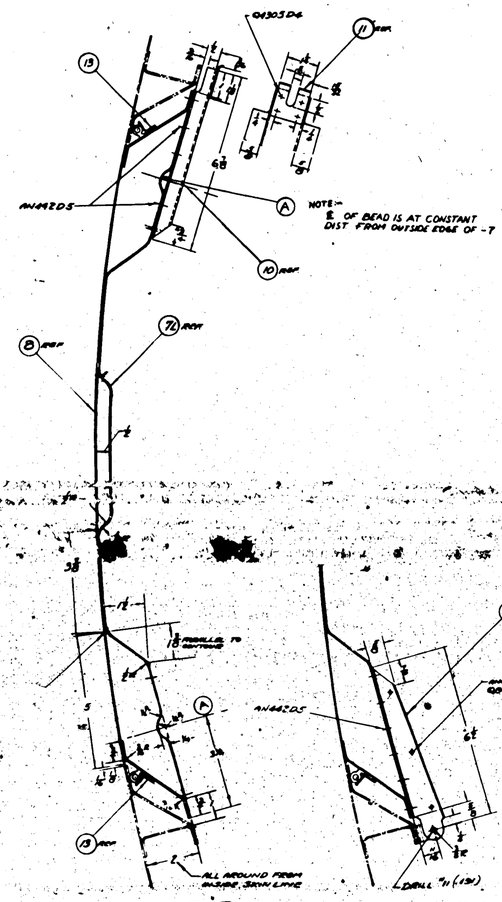
LET	ALTERATION	DATE	BY
A	ADDED BEAD TO -7 L/A	6-6-46	[illegible]
B	2 DR. HOLES ADDED, 2-#30 w/ [illegible]	[illegible]	[illegible]
	deleted		

LET	ALTERATION	DATE	BY

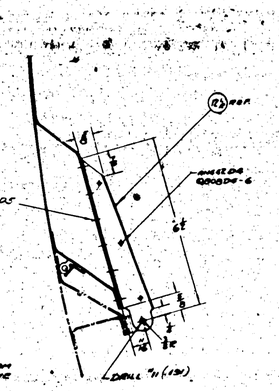
- D.31044
S.O. A14668 B
K



SECTION A-A
6"=1'-0"



SECTION B-B
6"=1'-0"



SECTION C-C
6"=1'-0"

DETAIL D
12"=1'-0"

NOTE : TO BE USED ON AIRPLANES
* 2486, 2487, 2488 ONLY

FINISH
Z-P EXCEPT -11, C-P AND -9, NONE

*2486-2487-2488

FINISH CODE

Z	ANODIC TREATMENT
P	P.17 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

| | | |

LET	ALTERATION	DATE	BY
V	INCREASED FROM 10 TO 11 DIA HOLES AT A, B, C & D -4 & -5 ASS'YS		
	ADDED 2 HOLES AT E -4 & -5 ASS'YS		
	ADDED 1 HOLE AT F -4 & -5 ASS'YS		
	CHANGED 1 HOLE AT F -4 & -5 ASS'YS FROM 10 TO 9 DIA		
	CHANGED 10 TO 9 DIA AT G -4 & -5 ASS'YS		
V	INC. 9 DIA TO 10 DIA AT H -4 & -5 ASS'YS		
	ADDED 1 HOLE AT J -4 & -5 ASS'YS		
W	IN B/M FOR -3 ASS'Y, MAT'L FROM A286 TO A2BT, ADDED NOTES TO MAT'L & SPEC. NUMBERS TO RACE A DECO PAT NOTES, NO WT CHG		

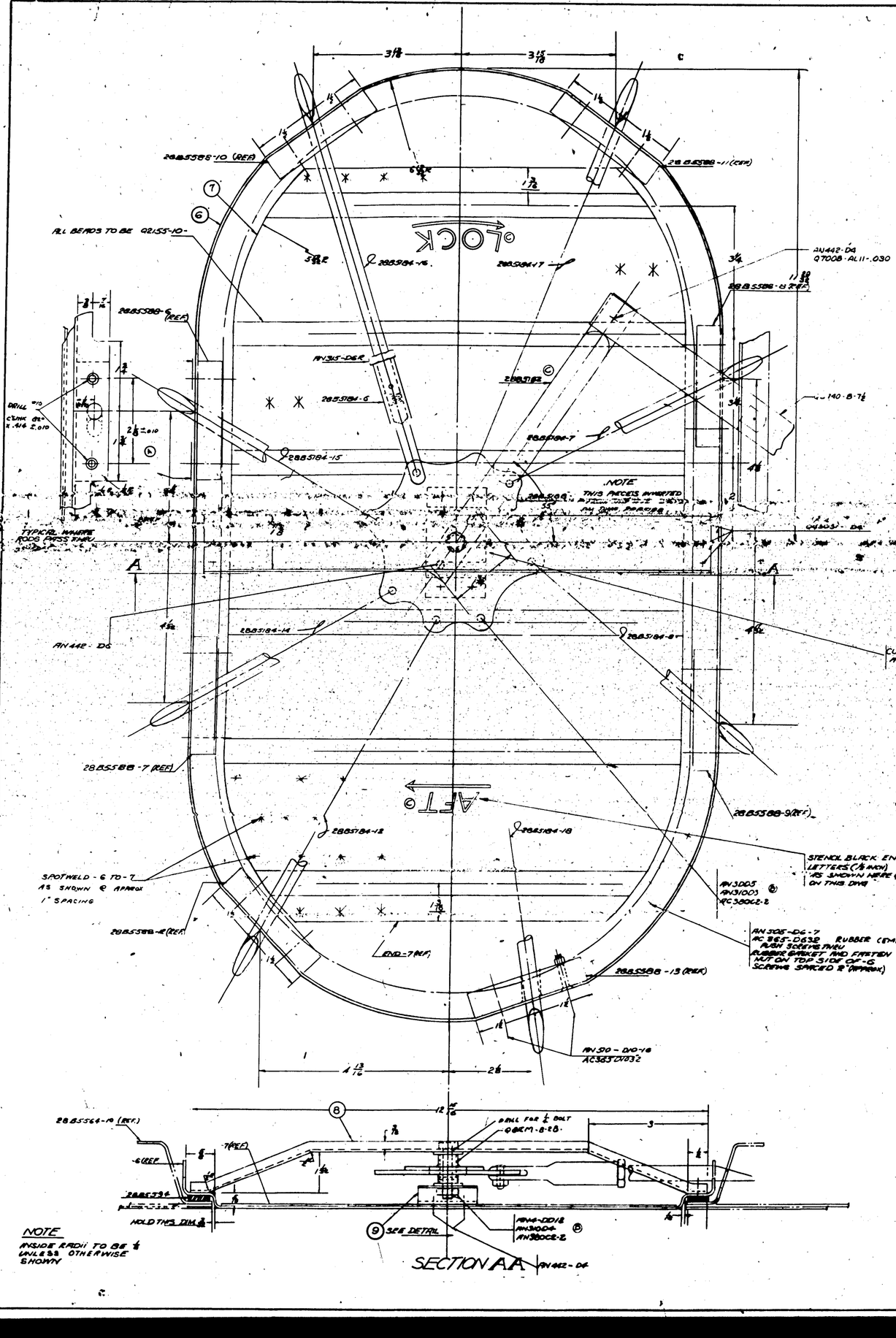
LET	ALTERATION	DATE	BY
	ON RECORD MAT'L WAS 9/16		
A	CHANGED -3 ASS'Y FROM 2024-T4 TO 2024-T42 PER AMS 4120		
B	CHANGED -11 REVISED BY ADDED -4 & -5 ASS'YS PER CHNG 23113, CANCELED		
C	ADDED SECTION D-D		
D	ADDED FOLLOWING PARTS: 2B5308-9, 2B5309-9, 2B5640-9, 2B5525-9L, 2B5525-11, 2B5525-23L, 2B5525-25L, 2B5525-27L, 2B5525-29L, 2B5525-31L, 2B5525-33L, 2B5525-35L, 2B5525-37L, 2B5525-39L, 2B5525-41L, 2B5525-43L, 2B5525-45L, 2B5525-47L, 2B5525-49L, 2B5525-51L, 2B5525-53L, 2B5525-55L, 2B5525-57L, 2B5525-59L, 2B5525-61L, 2B5525-63L, 2B5525-65L, 2B5525-67L, 2B5525-69L, 2B5525-71L, 2B5525-73L, 2B5525-75L, 2B5525-77L, 2B5525-79L, 2B5525-81L, 2B5525-83L, 2B5525-85L, 2B5525-87L, 2B5525-89L, 2B5525-91L, 2B5525-93L, 2B5525-95L, 2B5525-97L, 2B5525-99L, 2B5525-101L,

LET	ALTERATION	DATE	BY
A	Adding Sta. 84 Sta. 91 Lines, Sta. 84 Sta. 91 Lines, Sta. 84 Sta. 91 Lines,

LET	ALTERATION	DATE	BY
A	[illegible]	[illegible]	
B	[illegible]	[illegible]	
C	[illegible]	[illegible]	
D	[illegible]	[illegible]	
E	[illegible]	[illegible]	
F	[illegible]	[illegible]	
G	INTERCHANGED SET 1 TO 2 & CHNG. TOLLHOUSE DIMENSIONS CHNG. -8 TO OPPOSITE POSITION (NO WT. CHG.)	9-52	

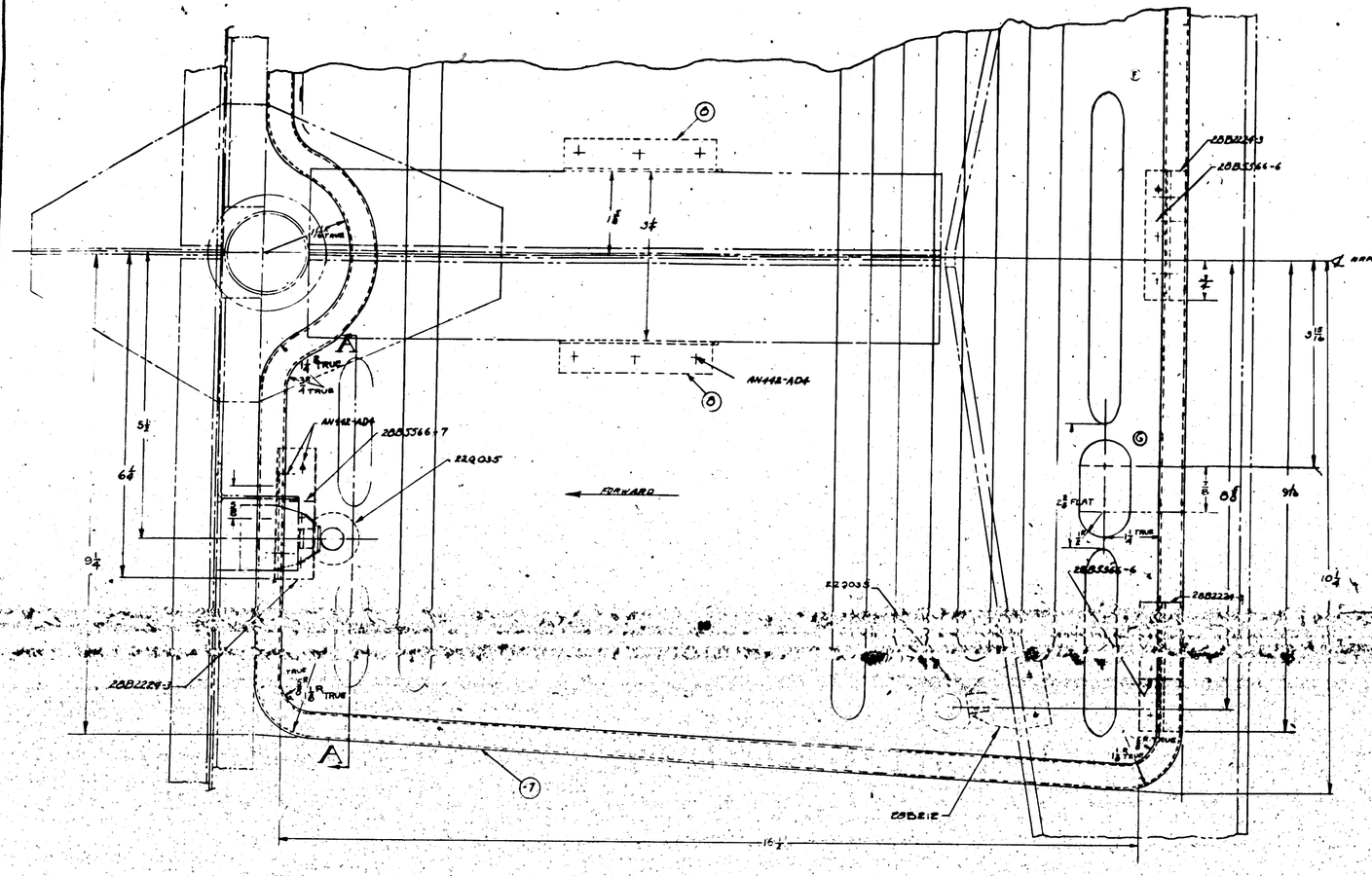
EDC 2681 PBY-5 K

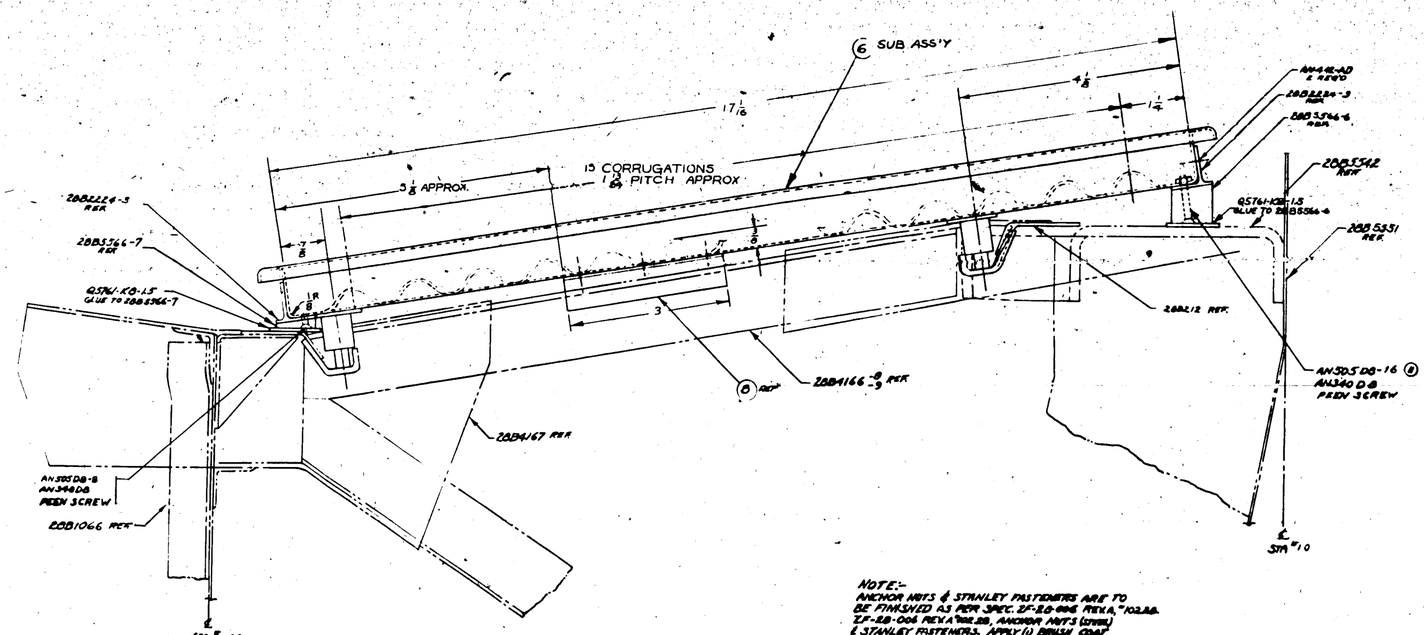
EO A1557 G



INCORPORATE BASIC CY ASSY. CHANGE "BB" MODEL PB1-BB

MFT	ALTERATIONS	DATE	BY
K	REVISED -7 PER ENGR'G	10/15	[illegible]
	REMOVED 1 DIA RIVET	8B A124	
	ADDED 1 FLUSH RIVET		
	MOD 1 RIVET ADDED PER E.O. (NOT USED YET)		
M	CHGD AN426-AD-16 (6) TO AN426-AD-7 (6) (NOT USED YET)	7-13-56	
N	ADDED -9 PER E.O. [illegible]	7-13-56	
P	CHGD -7 PER E.O. [illegible]	8-29-56	
K	DWG. 1 THRU 11 TYP.	9-24-56	
L	REVISED -5 WAS REVISED NO WT CHG.	7-1-58	





NOTES:

1. -7 IS SIMILAR TO 28B2221-2 EXCEPT LOCATION OF 220035 AT AFT END LENGTH OF 3 BEADS AT AFT END.
2. LOCATE FLOOR TO OBTAIN MAXIMUM CLEARANCE ON LUBRICATOR FTGS OF N.L.G. DOWN LATCH

NOTE:- ANCHOR NUTS & STANLEY FASTENERS ARE TO BE FINISHED AS PER SPEC. ZF-2.0-006 REV A, "102.00. ZF-2.0-006 REV A "102.00, ANCHOR NUTS (STEEL) & STANLEY FASTENERS. APPLY (1) BRUSH COAT OF ZINC CHROMATE PRIMER TO THE CONTACTING SURFACE OF THE NUT OR FAST NER. APPLY (2) COATS OF PRIMER TO THE SUPPORTING SURFACE. ASSEMBLE WITH ZINC CHROMATE PASTE IN THE JOINT SUCH THAT EXCESS MATERIAL IS SQUEEZED OUT AT ALL BOUNDARIES. REMOVE THE EXCESS MATERIAL IN A MANNER AS TO FORM A FILLET.

+ = RIVETS (SIZE INDICATED AT INTERVALS BY THE FOLLOWING RANGING)

-3/32 -1/8 -5/32 -3/16 -1/4 -5/16 -3/8

FINISH	
Z	ANODIC TREATMENT
P	PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

PART NO.	STOCK	MATERIAL	SPEC.	REQ.	REQ.	REQ.	REQ.	REQ.
				-0	-8	-9	-4	-5
	4 SUB-ASSEMBLY			1				
	3 FLOOR ASSY			1				
	2 BEAM ASSY			1				
	1 FLOOR SKIN			1				
	ANGLE AD			2				
	AN442AD4 RIVETS			12				
	AN525D8-8			4				
	AN525D8-14			3				
	Q5761-K8-1.5			1				
	28B5366-6			1				
	28B5366-7			1				
	STANLEY MFR. C.A.			4				
	28B5570			1				

A.S.			
HEAT TREAT	Z-P-AP		
FINISH			

NAME: FLOOR INSTALLATION - NOSE - FRONT GUNNER - STA. 066 - 160

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

OPP. HAND: SIZE J; DWG. NO. 28B5570

H-152

LET	ALTERATION	DATE	BY	MFT
	FROM STA. 4.1 TO STA. 4.6			
A	ADD NO. 10R HOLE TO PART 6			
	FAIL CREATING AT ASSY OPERATION			
	E.O. 26138 E.O. 26807 ORIG. REVISED ECN 28-31496			
	ECN 30081 ADD NO. 10R HOLE TO PART 6			
	ITEM MAY BE OMITTED			
B	REMOVED REF. NOTE "F" ADD "DO NOT RIVET UNTIL INSTALL OF 2885519-9" FROM DWG. F.S. 1052 CHG'D			
	TO LH ASSY TO ORIGINAL RELEASE			
C	CHANGE LOCATION OF -8 RIVET	9-3-41		
D	CHG'D RIVET PATTERN ON -6, -7 RIVETS WERE -8. ADDED NOTE DO NOT RIVET ... OF 2885519-9	9-11-41		
	MFG. NOT CHG'D.	9-11-41		
E	ADD'D DWG. NO. BELOW ANGLE DETAIL AT CUT OUT REQ'D	10-15-41		

FINISH CODE	
Z	ANODIC TREATMENT
P	P-97 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

| | | |

LET.	ALTERATION	DATE	BY
	INDICATES ALTERATIONS & ADDITIONS		
	INTERCHANGEABLE WITH PART NO.		
	SUPERSEDES 288640-37		
	SUPERSEDED BY 288640-39		
	WT CHG -2.36	11-7-45	
M	IN BOM, PER 37411 CHG, PER ECR 15344		
	ECC 38607 TO USE 5437 & 5437		
	PER WEIGHT NO WT CHG	7-19-48	
N	Q4303-04 WAS Q4303-04,		
	ON -13 SIDE		
	REMOVED R88120-13		
	ADDED -25 -27 -29 -31 & R88121-7		
	Q4303-04 WAS AN442-04D		
	WT CHG. PER	9-29-48	
P	REMOVED NOTE "SEE 288635-7"	2-25-49	
	DETAIL F REPLACED WITH SEE		
	DETAIL F ADDED DETAIL F		
	CORD STOCK SIZE OF -8 FROM		
	1/4"x1/16" TO 1/4"x5/16" IN		
	BOM. WT CHG.	11-7-49	
Q	IN BOM, -7 WAS -7, -11 WAS -11		
	AN4001-10D TO MS4001-10 IN		
	BOM. WT CHG.	4-3-50	
R	AC 365-0832 ADDED -12 & -16		
	Q4303-04 WAS Q4303-04D		
	-8 IN BOM, Q4303-10 WAS Q4303-10D		
S	CHG DIRECTION OF ARROW AT		
	DETAIL F NO WT. CHG.	10-30-50	

LET.	ALTERATION	DATE	BY
A	ADDED -11 & -13 TO STRINGER		
	LOCATION CHART, CHG -11 TO -13		
	IN LOCATION CHART, CHG -13 TO -11		
	IN BOM, -11 DIMENSION ADDED		
	10-10 -14 PER PO 15743		
B	-12 & -13 ADDED IN BOM	2-28-51	
	Q4303-04 WAS Q4303-04D	"	"
C	-13 & -14 ADDED IN BOM	"	"
	CLIP REMOVED FROM STRINGER	"	"
D	ADDED -13 & -14 TO AN442-04D,	5-25-51	
	Q4303-04 AS PER LO 2410/51		
E	-13 & -14 WERE -11 & -13		
	CLIP -13 WERE -11 & -13		
	BRACKET ASSY WERE -11 & -13		
	NO WT CHG.		
F	CUT-OUT ADDED TO AN365-04D	10-22-51	
	Q4303-04 NO WT CHG		
G	ADDED -9 & -11 TO		
	BRACKET ASSY AN365-04D &		
	AN365-06-10 AN365-06-12		
H	288630 WAS 288627-11	4-2-52	
	NO WT CHG		
J	ON PAGE 288520-1 WAS -11		
	ADDED -11 & -13 CUT-OUT TO PAGE		
	IN BOM MAT'L 0811 & 813 AV 15250		
K	-7 & -9 WERE -11 & -13		
	MATERIAL CHG TO -5 REQUIRED	6-2-52	
	FAIR FOR -A3527, NO WT CHG		
L	REMOVED LIP FROM UPPER		
	FLANGE SECTION CC ADDED -A		
	& -B AND 90° DIMS. TO SECT X		
	(NO WEIGHT)	9-24-52	

E.O. A39642
E.O. A32275 A
E.O. A37188
E.O. 85874
E.O. 818177
E.O. 824396

E.O. 227 PBY 28-61
W.O. FLOYD 18-28
E.O. 223
E.O. 22348
E.O. A28371

TRIM 288640-38-40 ON INSTALL. OF 2884126

288640-39LH 40RH

AN442D5 8 EQUALLY SPACED

TRIM FLANGE 45°

288640-38(REF)

VIEW B-B
12"=1'0"

288640-39LH
288640-40RH REF

12"=1'0"

288073
PBY-5 (91 ON)
PBY-5A (53 ON)
PBY-5B (151 ON)
28-5AMN

SEE 288525-DETAIL E

TOP FLANGE ANGLE VARIES BETWEEN TANGENCY POINTS OF THIS RADIUS AS SHOWN

BOTTOM FLANGE ANGLE INCREASES FROM 84° TO 90° IN THIS DISTANCE

288073
PBY-5TH (8 ON)
PBY-5A (53 ON)
PBY-5B (151 ON)
28-5AMN

288075

PORT SIDE
LOOKING FOREWARD
6"=1'0"

DETAIL F
12"=1'0"

SECTION C-C
12"=1'0"

SECTION X-X
12"=1'0"

SECTION D-D
12"=1'0"

SECTION A-A
12"=1'0"

BELT FRAME SYM. ABOUT

288391

AC365-0832

FOR OUTSIDE CONTOUR SEE 288003
FOR CONTOUR BEVELS SEE 288003
FOR STRINGER LOCATIONS SEE 288007
H.T. ALL COND A(SO) MAT. PER SPEC. 3R-53
ALL RIVETS AN442D

FINISH CODE	
Z	PAINT TREATMENT
P	PAINTED
AP	ALUMINIZED PRIMED
C-1	CHROMED PLATE

PART No.	STOCK	MATERIAL	SPEC	LAY OUT	-0	-2	-3	-4	-9
					PIECES LAID PER ASSY				
-3R	.040	248-T3	QQ-A-250/5				1		
-3L	.040	248-T3	QQ-A-250/5				1		
-11	1/8	248-T3	QQ-A-250/7				1		
-12	1/8	248-T3	QQ-A-250/7				1		
-13R	1/8	248-T3	QQ-A-250/7				1		
-13L	1/8	248-T3	QQ-A-250/7				1		
-14R	1/8	248-T3	QQ-A-250/7				1		
-14L	1/8	248-T3	QQ-A-250/7				1		
-101	1/8	248-T3	QQ-A-250/7				1		
-102	1/8	248-T3	QQ-A-250/7				1		
-4	1/8	248-T3	QQ-A-250/7					1	
-5	1/8	248-T3	QQ-A-250/7						1

MODEL	WEIGHT ASSEMBLY	WEIGHT SHIPPING

DRAWN	NOTED	ZP-AP
HEAT TREAT		FINISH

NAME BELTFRAME-NULL STA. @ 64.

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SCALE NOTED | DWG. NO. J 28B5640

H-154

E.O. A39641
Q.O. A44871
BOA57188
Q

LAST N	NO. DESCRIPTION E.O. 15982	DATE	BY	LAST N	NO. DESCRIPTION E.O. 15982	DATE	BY
	[illegible]			A	[illegible]		
N	-7 ALLEVIATION WAS -11 PER [illegible]			R	[illegible]		
	ADDED ASSEMBLY TO LEG OF -7 NOW 9 PCS.	12-5-44	[illegible]		[illegible]		
P	-11 WAS -7 PER E.O. [illegible]				[illegible]		
	-15 WAS -11 PER E.O. [illegible]				[illegible]		
	ADDED -15 PER E.O. 44306-D4			G	[illegible]		
	WAS Q1201-M4 TO 288620				[illegible]		
	PER E.O. [illegible]				[illegible]		
	[illegible]			P	[illegible]		
	[illegible]				[illegible]		
	[illegible]				[illegible]		
	[illegible]				[illegible]		
	[illegible]			K	[illegible]		
	[illegible]				[illegible]		
	[illegible]			F	[illegible]		
	[illegible]				[illegible]		
	[illegible]			G	[illegible]		
	[illegible]				[illegible]		
	[illegible]			R	[illegible]		
	[illegible]				[illegible]		
	[illegible]			J	[illegible]		
	[illegible]				[illegible]		
	[illegible]			K	[illegible]		
	[illegible]				[illegible]		
	[illegible]			L	[illegible]		
	[illegible]				[illegible]		

28B620-47 L.H
-48 R.H

See 28B620 For Riveting In These Members.

28B620-36 L.H

AN305-D6-10
AC365-D6-32

Q3761-KB-1.5 Cement To 28B1391

FWD.

Section -CC-
Scale -12"=1'-0"
(D)

Q3761-KB-1.5 Cement To 28B1391

6°

AN305-D6-10
AC365-D6-32

FWD.

Section -BB-
Scale -12"=1'-0"
(D)

12°
32

28B212

AN425-D4

FWD.

Section -AA-
Scale -12"=1'-0"
(D)

Q4305-D4

Q4305-D6

AN442D5

Full Size

Q4305-D6

* NOTE:
FOR 28BMA, MC, ME, MN, AMC-9 I ON, PBY-5 C 70496-25 ON

Full Size

Bottom Flange Angle Decreases From 96° To 86½° In This Distance.

Full Size

See Detail E Or 28B5525

28B5509

Q2155-14-45

Q2155-14-35

Q2155-14-25

Q2155-14-2.5

AN442-D6

28B070-2

Full Size

Between The Tangent Points Of This Radius The Flange Angle Varies Between The Limits Shown

28B5503

28B1391

Q2155-14-3.5

Q2155-14-5.5

Q2155-14-6

Q2155-14-8

AN442D6

Full Size

Ship & Symm.

AN442D6

Full Size

28B5525-9L

Full Size

View Shown - PORT SIDE
Looking Forward

NOTES — For Outside Contour See 28B003.
For Contour Bevels See 28B036
For Stringer Locations See 28B1007
H.T. All Cond A Mat. Per Spec. SR-53
All Rivets AN442D
For Dimensions Not Shown See 28B620

FINISH CODE

A	ANODIC TREATMENT
P	P.C.F. PRIMER
A.P.	ALUMINIZED PRIMER
C	CADMIUM PLATE

3.4 DEXT PRIME
FOR FURTHER RELEASES SEE ATK

28-5MA,MC,ME,MN	28B1380										
PBY-5A	28B1000										
28-5MA,MC	28B1000										
PBY-5	28B1000										
PBY-5A	28B1000										
28-5 MN	28B1000										
28-5 MC	28B1000										
28-5 ME	28B1000										
28-5 MA	28B1000										
PBY-5 A/C	28B1000										

C-91876
C-70496

-15R	K3401X2-6	MAT BATH	46A9T								
-9L	K3401X2-6	24ST BATH	46A9T								
28B5620-12	28B2 X 4-3/8	24ST BATH	61A9T								
-11	28B2 X 7/8	24ST BATH	61A9T								
-9R	K5401T7-3/4										
-9L	K5401T7-3/4										
-8R	K5401X8-1/2										
-8L	K5401X8-1/2										
-7R	K5401X7-3/4										
-7L	K5401X7-3/4										
-6R	K5401T5-3/4	24ST BATH	61A9A								
-6L	K5401T5-3/4	24ST ALCL	61A9A								
28B5620-5	28B1 X 5-3/4	24ST ALCL	61A9A								

PART NO.	STOCK	MATERIAL	SPEC	PARTS LIST PER ASSY	-0	-3	-4	-5

A/C			
DRAFT	ALCLAD	2PAP	
HEAT TREAT		FINISH	

NAME: BELT FRAME - NULL - STA. 6.20
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG NO. 28B5620 | REV R

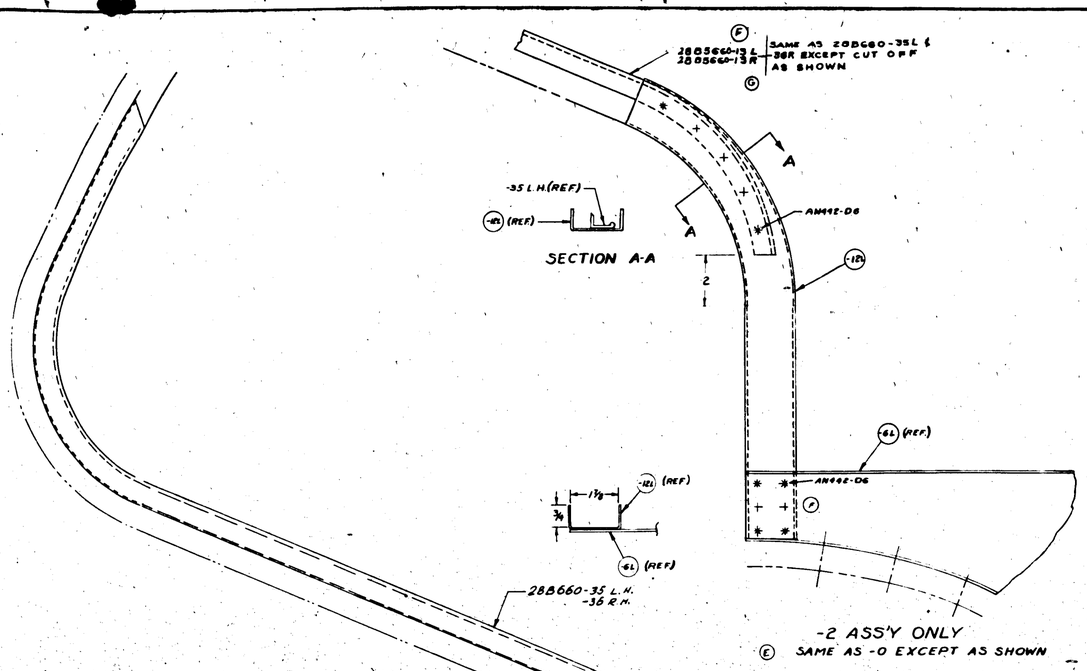
Q29CC097

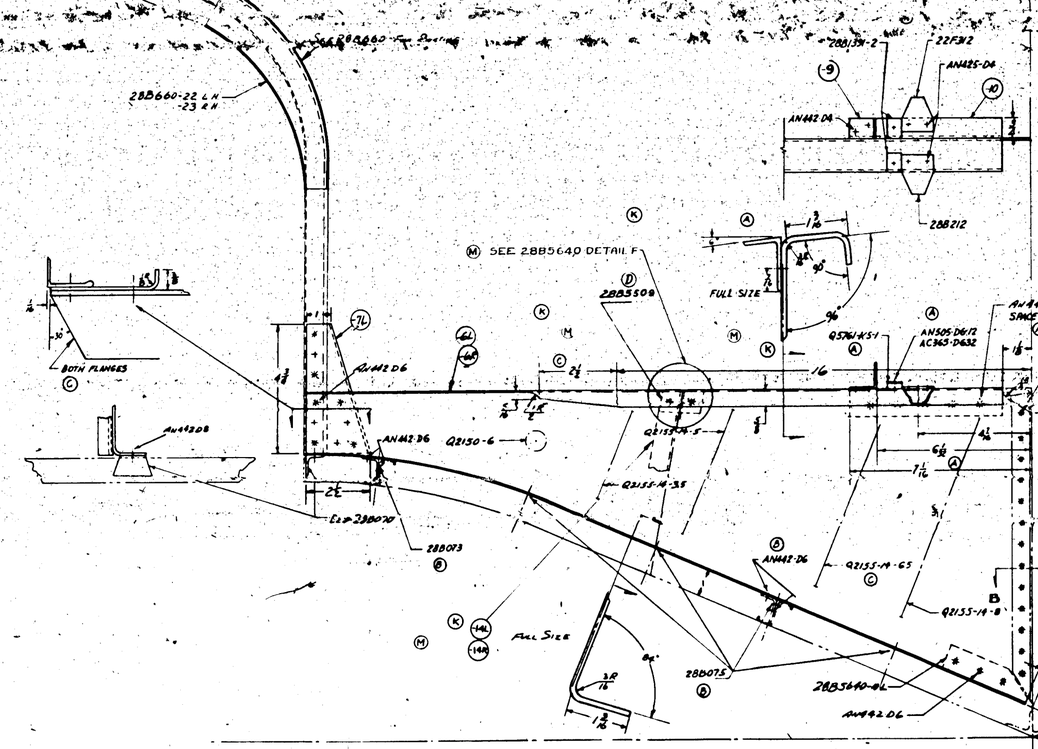
H-155

28-5MA, MC, ME, MN & AMC-12 I ON PBY-5 C-70496 25 I ON.

LET	ALTERATIONS	DATE	BY	CHK	LET	ALTERATIONS	DATE	BY
J	REVISED SECTION B-B W/CHG	4-24-44			A	ADDED FLOOR SUPPORT ANGLE & HOLD-DOWN CLIPS, PARTS ADDED		
K	ADDED LIMITATIONS TO -5 & -7 PER NOTE "SEE -58-53 ADDED" -5 & -7 PER NOTE "SEE ... PREV. REQ. W/ CHG.	4-27-44				28B1831-2 & -3 10. 22FW2 28B818, 0A2A1-M4-L ANGLE - DA-18, AC383-1438, AND 21-DA ADDED TOP VIEW OF ANGLE & CLIPS & DIMS. TO RAMS		
L	PER -5LL-, -5R-V-2- ASS'YS #0 WAS M3481X18, 8 OUT RETRN #1 PART ... WT. CHG. REQ.	5-29-44				REMOVED 28B3640-12 AS PER EO. NO. 15822		
M	ON FACE OF DIMS. REMOVED NOTE "SEE 2885640 ..." ADDED REPLACED WITH NOTE "SEE ... ADD 28640 DETAIL F" REMOVED "-5LF-5RF FOR 28-53" NOTE "SEE 2885639 DETAIL E FOR -2 ASS'Y" NOTE AT TAILORT FOR -14 1/16 "FOR PDY-5 PRY-5A PRY-5B" IN NAV -04-2 MASTER REMOVED -5L (OR -5R) ... NO WT. CHG.	6-9-44			B	REMOVED STRINGER CLIPS 28B073, ADDED CLIPS 28B074 & 28B073		
					C	CHANGED 92155-14-7 TO 92155 -14-6.5, DIM'S 3 TO 3/2, CUT OFF END OF (2) ANGLES-ALSO (7)	7-7-44	
					D	REPLACED 2885682 "RIB MATH 2885680	8-2-44	
					E	CREATED -2 ASS'Y DETAIL OF -2 ADDED WT. CHG. + 2#	8-12-44	
					F	28B660-35 L.H.E -36 RH WERE -35L H.E -36 RH (IN -2 ASS'Y VIEW) DOTTED LINE WAS SOLID ADDED NEW STRINGER CENTER LINES (NO WT. CHG)	8-31-44	
					G	2885660-13L & 2885660-13R WERE 2885660-35L & -36R ADDED NOTE, "2885660-13 ... SHOWN" NO WT. CHG.	9-12-44	
					H	ADDED AN442D6 18 EQUAL SPACES W.T. CHG. NEG.	9-16-44	
					J	REVISED SECTION B-B, NO WT. CHG.	10-4-44	

E.O. A64773
E.O. 8687
E.O. 8806
E.O. B27116
E.O. 15788
E.O. 23346
E.O. A39036
E.O. A62486
E.O. A05182
E.O. A64773





VIEW SHOWN - PORT SIDE
LOOKING FORWARD

NOTES - FOR OUTSIDE CONTOUR SEE 28B003.
FOR BEVEL ANGLES SEE 28B036.
FOR DIMEN'S NOT SHOWN SEE 28B660.
FOR STRINGER SPACING SEE 28B007.
H.T. ALL CONN A MAT. PER SPEC SR-53.
ALL RIVETS AN470 EXCEPT AS NOTED.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

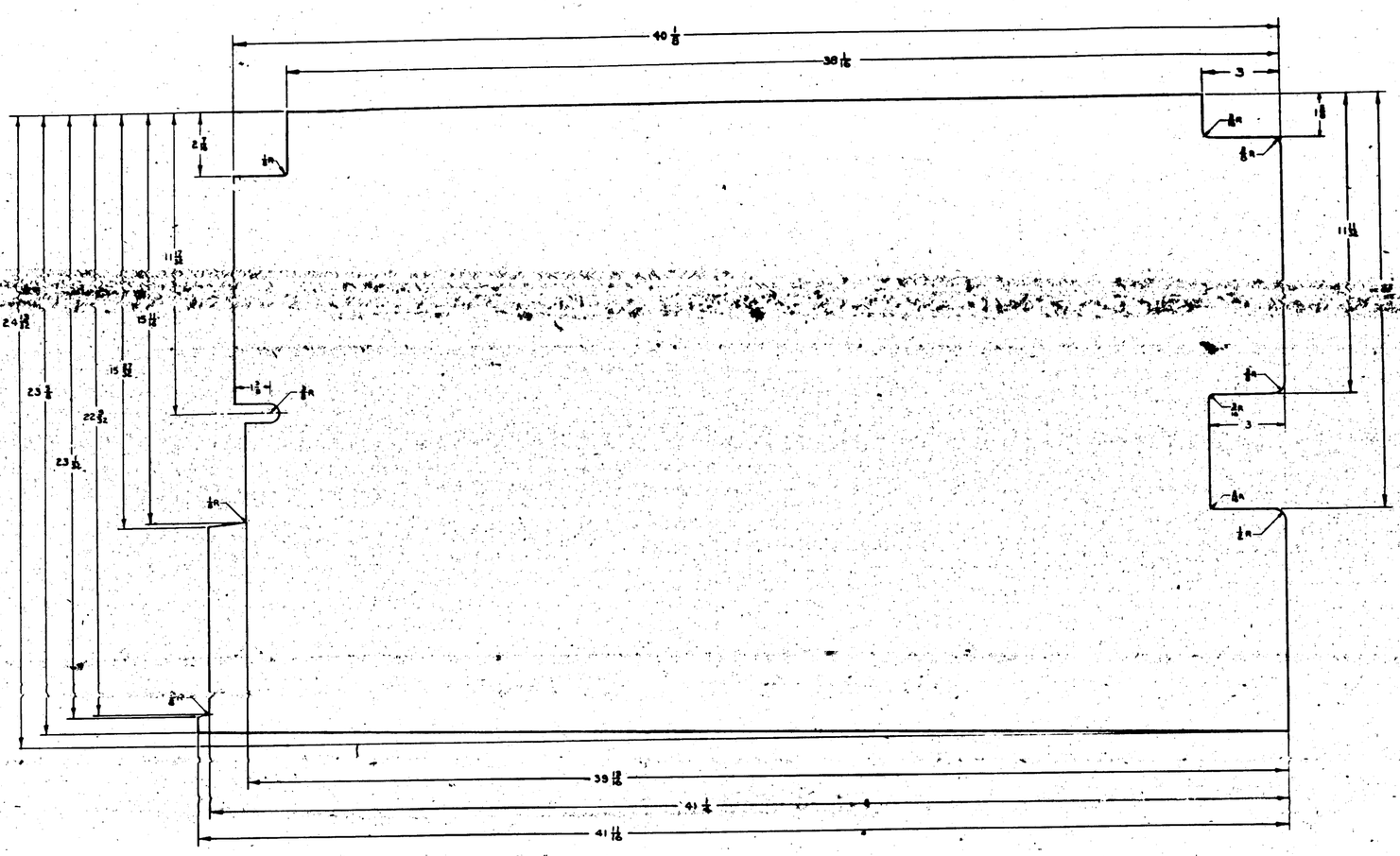
-0	PDY-5	28B4000	1
-2	PDY-5	28B8000	1
-2	PDY-5R	28B4004	1
-2	PDY-5A	28B4004	1
-2	PB-5ACMP	28B8000	1
-0	2A-5ANC	28B8004	1
-0	2A-5MM	28B8004	1
-0	2A-5NE	28B8004	1
-0	2A-5NC	28B8004	1
-0	2A-5NA	28B8004	1
-0	PDY-5	28B8004	1
-0	PDY-5	28B5560	1
-0	PDY-5	28B1009	1

		-14L	K5401	K 5 1/2			
		-14L	K5401	K 6 1/4			
		-13R	K1330	K 4.5			
		-13L	K1330	K 4.5			
		-10	28B3820	3	AC LAD	024B T	
		-10	28B3820	3	AC LAD	024B T	
		-10	7168	K 6	MAT ENTRU	4640 T	
		-5	K7101	K 7.5	MAT ENTRU	4640 T	
		-7L	2885633	1	MAT PLCLAD	4178 T	
		-7R	2885633	1	MAT PLCLAD	4178 T	
		-6L	2885632	1	2024 AL	4178 A	
		-6R	2885632	1	2024 AL	4178 A	

| | | | | | | |

7 6 5 4 3 2

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



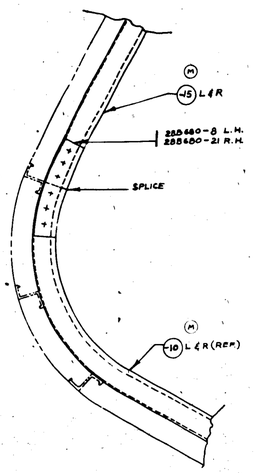
APPROVED FOR TOOLING BY [signature] 9/20-43

LET	ALTERATION	DATE	BY
A	-4 STA(6.4) WAS 1.326 (-2 & -3 STA 1.326) ADDED PER ECN 18077-4 REQ'D		
B	NEW DIMENSION ADDED & 15° ANGLE ADDED		
C	ADDITION OF HOLD DOWN CLIPS & BUSHING BLOCKS ADDED SHEET 3 (-2, -3 & -4)		
D	CREATED -5 ASSY. ADDED VIEW FOR -5 TO SAME		
E	ADDED 288680-21, -23 & -7 CHGD. SIZE AT 288037 FROM 2 TO 1 288037 FROM 1 TO 2		
F	FOR -5 ASSY. REV. FROM -3 ASSY. ADDED -10 & -11 NOTE		
G	FOR -5 ASSY. 288037(C) WAS NOT 1 ADDED 288504 1 LH (1 EA) WT. CHG. NEG.		
H	ADDED 2 SPACERS (-28 & -29) FOR -5 ASSY.		
J	CHGD CROSS SECT. VIEW LOOKING FROM SPECIAL RH CORNER. NO WT. CHG.		
K	TIP PART VIEW DIST. & ANGLES		

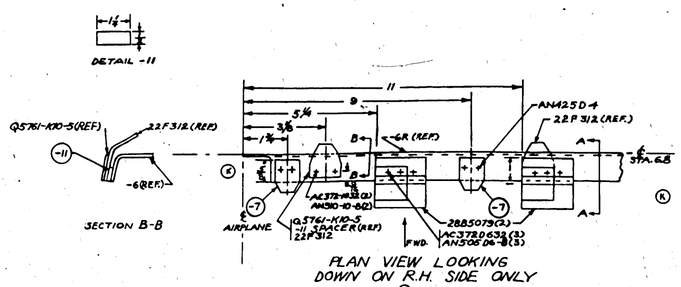
LET	ALTERATION	DATE	BY
	Parcel Wrap A & / MAS B		
L	CREATED -6 & -7 ASSYS. FOR LOOKING FWD - PORT SIDE FOR -4 ASSY. NO WT. CHG.		
M	CREATED -8 & -9 ASSYS. FOR REF. -2 & -3 ASSYS. ADDED 90-4 ASSY. & 90-10-30 REQ'D. (-2 REQ'D) (-3 REQ'D) (-4 REQ'D) ADDED -11 & -12 ASSYS. (-5 REQ'D) ADDED -13 & -14 ASSYS. (-5 REQ'D) CHANGED 90-04 TO 90-10 REQ'D. FOR -5 ASSY. REMOVED -12 & -13 CALC. WT. CHG. 1.10		

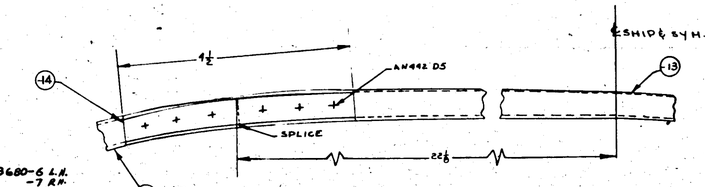
E.O. 18793
E.O. 22205
E.O. 158314
E.O. A39487
E.O. M38599
E.O. 163886
E.O. 51622
90° SPACE (REF.)
E.O. 264774
E.O. 199706

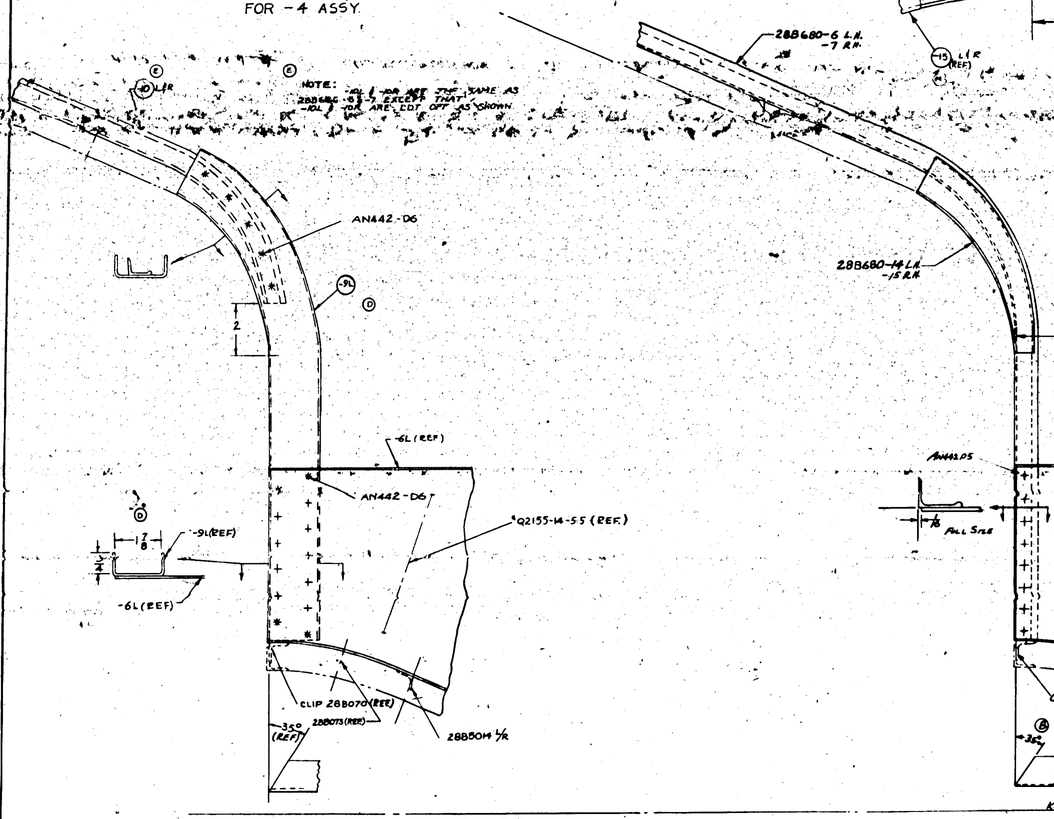
E.O. 81817-A
C.A. 36964



VIEW LOOKING FWD.-PORT SIDE
FOR -4 ASSY.







© VIEW SHOWN - PORT SIDE
LOOKING FWD. FOR -2, -3 & -4 ASSYS.

NOTES - FOR OUTSIDE CONTOUR SEE 288003
FOR BEVEL ANGLES SEE 288036.
FOR STRINGER SPACING SEE 288007
FOR DIMEN'S & DETAIL NOT SHOWN SEE 288680.
HT. ALL COND A. MAT PER SPEC SR53
ALL RIVETS AN442 D.

VIEW SHOWN - PORT SIDE
LOOKING FORWARD FOR -0 ASS'Y.

C88477 NOT TO BE USED FOR SPARES

FINISH CODE	
Z	ANODIC TREATMENT
P	A-21 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

-11	PBY-5A	288067	3	
-8	2B-AMM	288500	1	
-4	PBY-2A	288067	3	
-A	2B-AMM	288500	1	
-A	PBY-A	288000	1	
-E	PBY-E	288067	3	
-0	PBY-0	288000	1	
-0	2B-BMC	288000	1	
-0	2B-BMM	288000	1	
-0	2B-BMB	288000	1	
-0	PBY-2	288000	1	
-0	PBY-3	288000	1	
-0	PBY-4	288000	1	
-0	PBY-5A	288000	1	
LAST USED	MODEL	PART NUM.	QTY.

REQUIREMENTS PER AIRPLANE
SUPERSEDES
SUPERSEDED BY
LAST USED ON DRAWING OR SPEC
MADE BY
CHKD.
STAMP PART NUMBER ON EACH SUBASSY

| PARTS LIST FOR ASSY | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY

28B5500-332 (REF)

28B5500-1316 (REF)

B.P. 3.66 (REF)

28B5500-1319 (REF)

A

A

APPROX

APPROX

9 EQUAL SP

CLEAR DIA FOR EXHAUST 28F7892 (REF.)

28B5688 PLATE

L.H. SIDE LOOKING INBOARD

28B5500-1317 STRINGER REINFORCING ANGLE (REF)

AIR SCOOP (REF.)

28F7883 GASKET (REF)

STA 4.0 (REF)

L.H. SIDE LOOKING FWD

HULL PLATING (REF.)

28B1338 (REF)

SEC. A-A
SCALE 12:1-0"

NOTE: USE Q4905D6 RIVETS THROUGHOUT

NCR 2218-2-2

APPROVED FOR TOOLING BY
F. Howarth
4/17/43

	F8Y-3A	28B5500	
LIST OR SPECIFICATION No.	MODEL	ITEM ASSY. NO.	
REQUIREMENTS FOR AIRPLANE			
REPLACES			-70 SHT 1
REPLACED BY			SHT 1
LOFT OR TEMPLATE SCALE	SCALE		SHT 1
1" = 1"	12-1-0"		
STAMP PART NUMBER WHERE SHOWN			

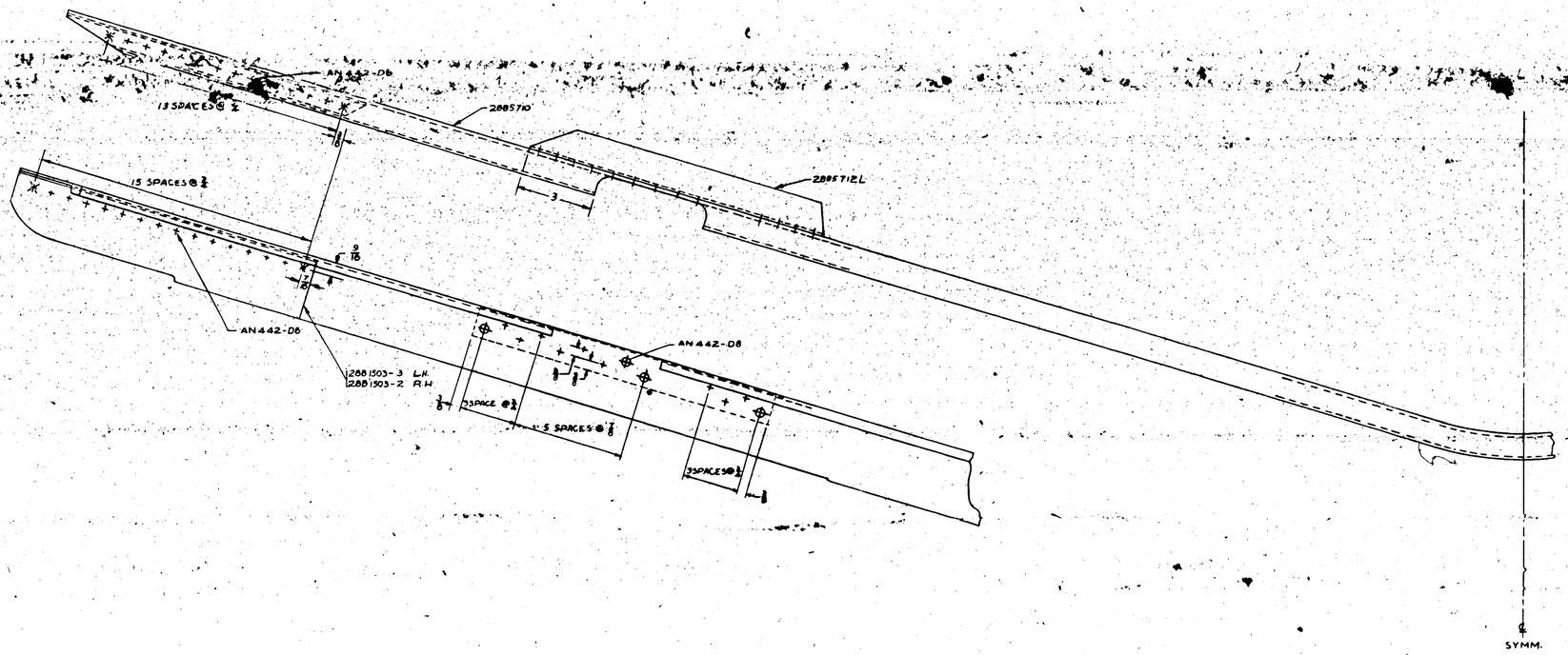
PART NO.	STOCK	MATERIAL	SPEC.	LH REQ'D	RH REQ'D	LH REQ'D	RH REQ'D	LH REQ'D	RH REQ'D	LH REQ'D	RH REQ'D
PARTS LIST PER ASSY.				-0		-2		-3		-4	
28B5688				1		1		1		1	

A.C.						
ENGR NONE				7-30-43		
HEAT TREAT	FINISH	WEIGHT	SHEET	STRUCT	STRESS	DATE
NAME INSTALL'N-CENTRAL HEATING SYSTEM REINFORCING PLATE				OPP HAND NONE		
				DWG NO. J	28B5687	

H 159

R 1899087

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				A			

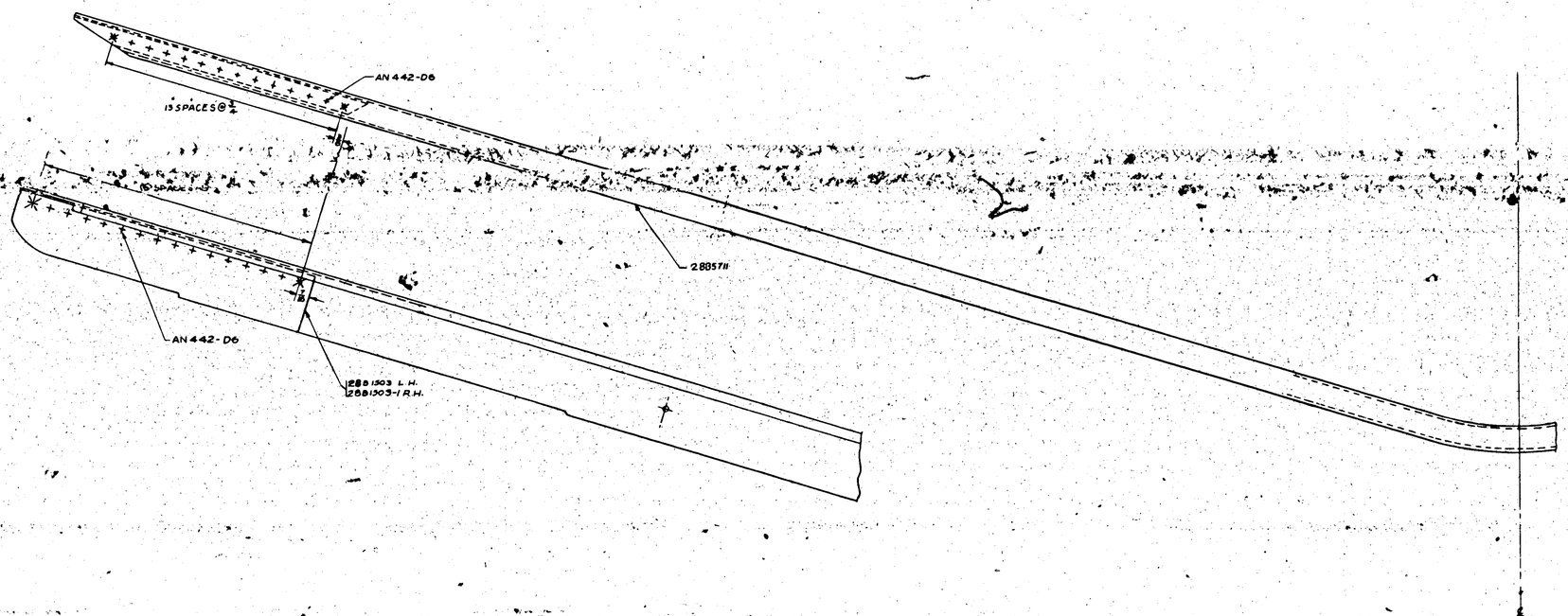


MCR299

APPROVED FOR TOOLING BY 9-15-93

| | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



MCR 299

APPROVED FOR TOOLING BY
June 9-45

PART No.	STOCK	MATERIAL	SPEC.	LOT NO. REQ.	LOT NO. REQ.	LOT NO. REQ.	LOT NO. REQ.	LOT NO. REQ.
				-0	-2	-3	-4	-5
AN442-D6								

PARTS LIST FOR ASSY.

PBY-5A	2885511	2885711
MODEL	PRINT ASSY.	DWG.

REQUIREMENTS PER AIRPLANE

2881302-4	4.5	AN442-D6 2885701
EXPLODED BY	ASY QTY	

LOFT DWG. NO.	SCALE	6"=1'-0"
DRAWING PRINT NUMBERS	ENGINEER	DRAWN

A/C	E-P-GP	APPROVED
NAVY NONE		7/11/45
VENT WEIGHT	FINISH	DRAFT / CHECK / GROUP / MAT / EXPERM / DATE

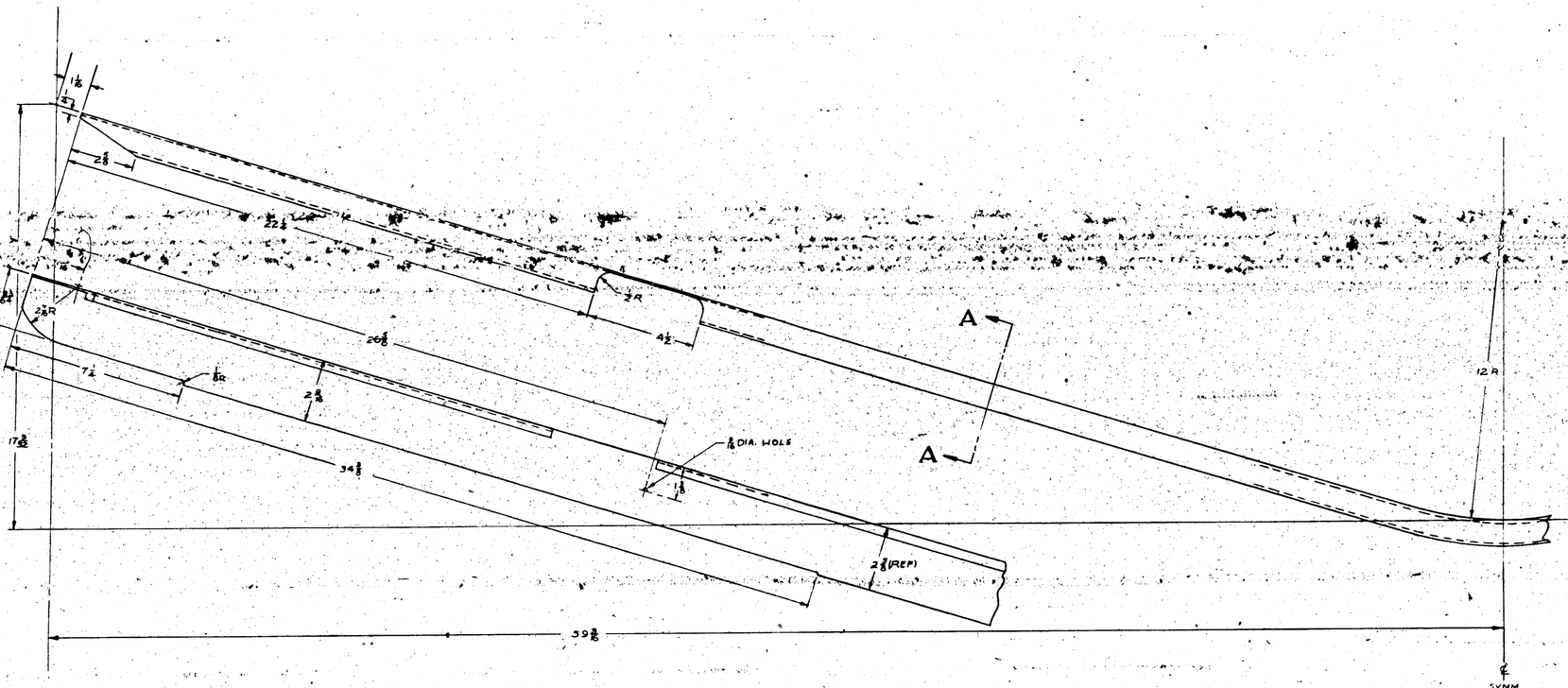
NAME ANGLE ASSY-HULL BULKHEAD STA. 5.0 LOWER AFT

CAGE NO. J | DWG. 28B5709

H 161

R 60459B2

LET.	ALTERATION	DATE	BY	LET.	ALTERATION	DATE	BY



SECTION A-A
12"=1'-0"

APPROVED FOR TOOLING BY
9/5-43

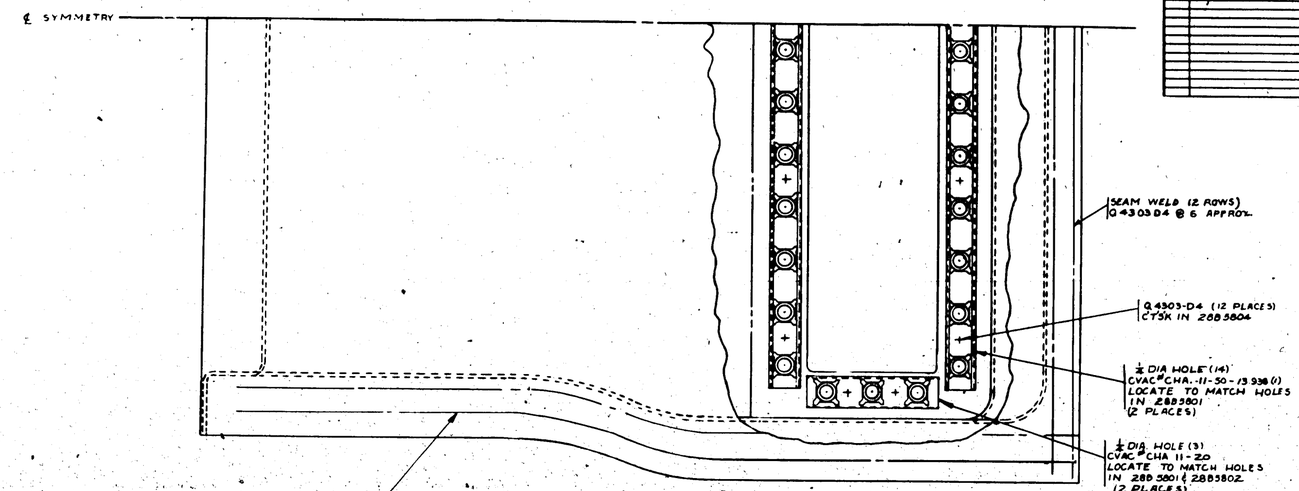
MCR 299

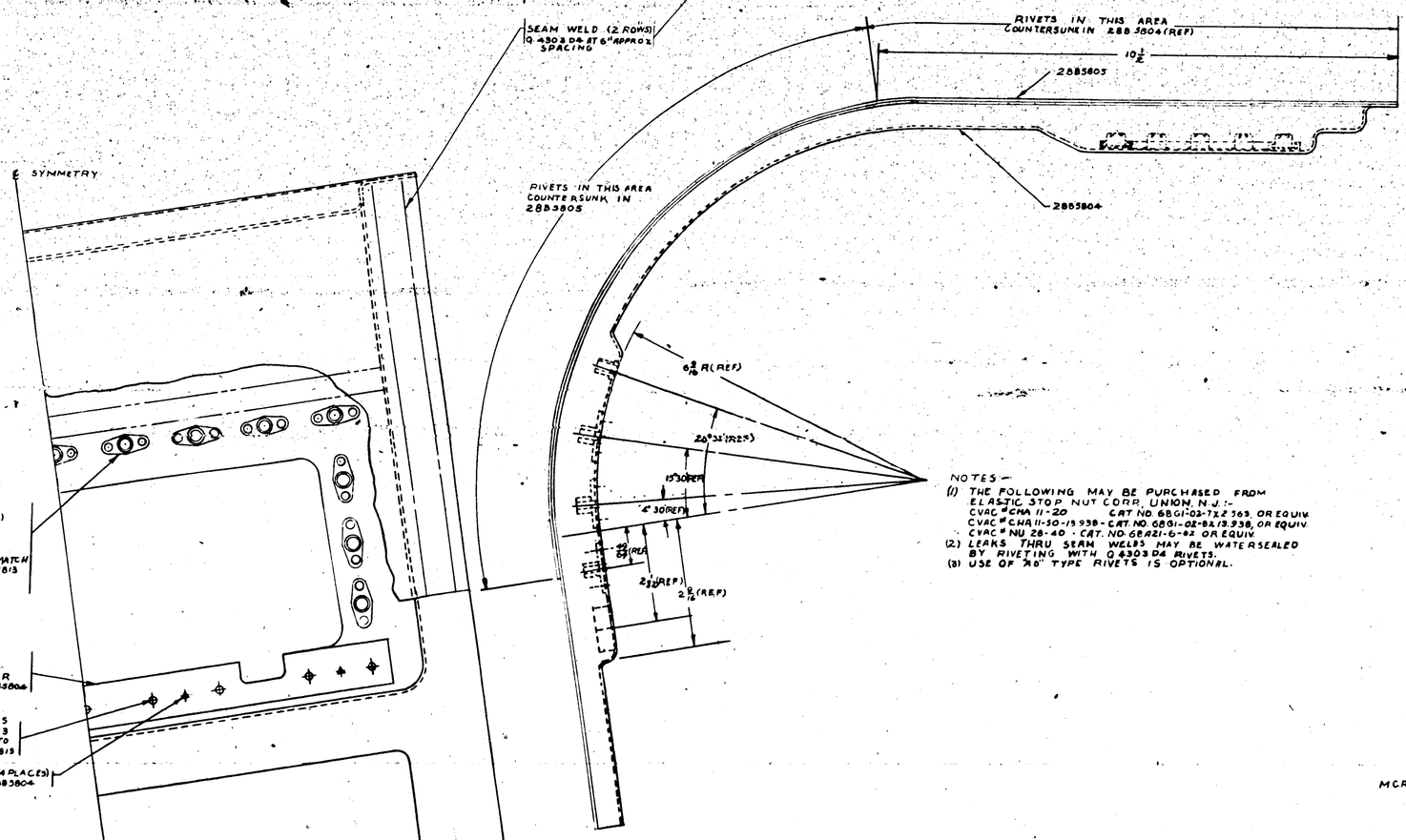
LAST USED	PBY-5A																		
NEXT ASSY.	MODEL																		
REQUIREMENTS FOR ASSEMBLY																			
28A1302-7	40#																		
LIST OF MATERIALS REQUIRED	SCALE 0"=1'-0"																		
GROUP PART NUMBER SYSTEM																			
PART NO.	SYMBOL	MATERIAL	SPEC.	LAST SER REQ	NEXT SER REQ	LAST SER REQ	NEXT SER REQ	LAST SER REQ	NEXT SER REQ	LAST SER REQ	NEXT SER REQ								
PARTS LIST FOR ASSY.				-0	-1	-3	-4	-5											
28A1302-7	ANGLE-HULL BULKHEAD-STA. 30-LOWER FWD.	2024-T	QQ-A-355	1	1	1	1	1											
A.C. PARTS 1	HEAT TREAT	FINISH																	
NAME	ANGLE-HULL BULKHEAD-STA. 30-LOWER FWD.																		
SIZE J	28B5710																		

28B5710 R

H 162

MET	ALTERATION	DATE	BY	MET	ALTERATION	DATE	BY



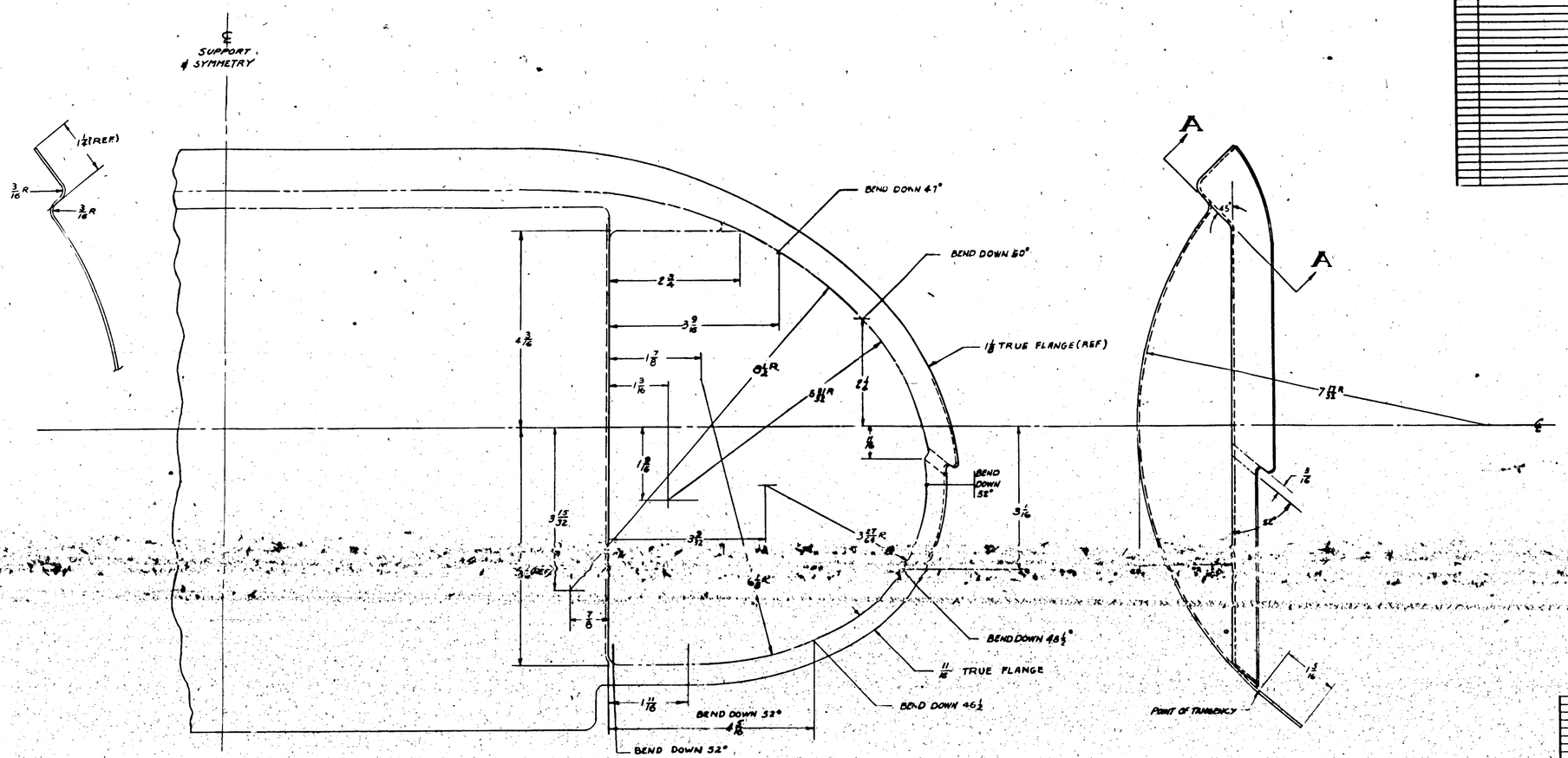


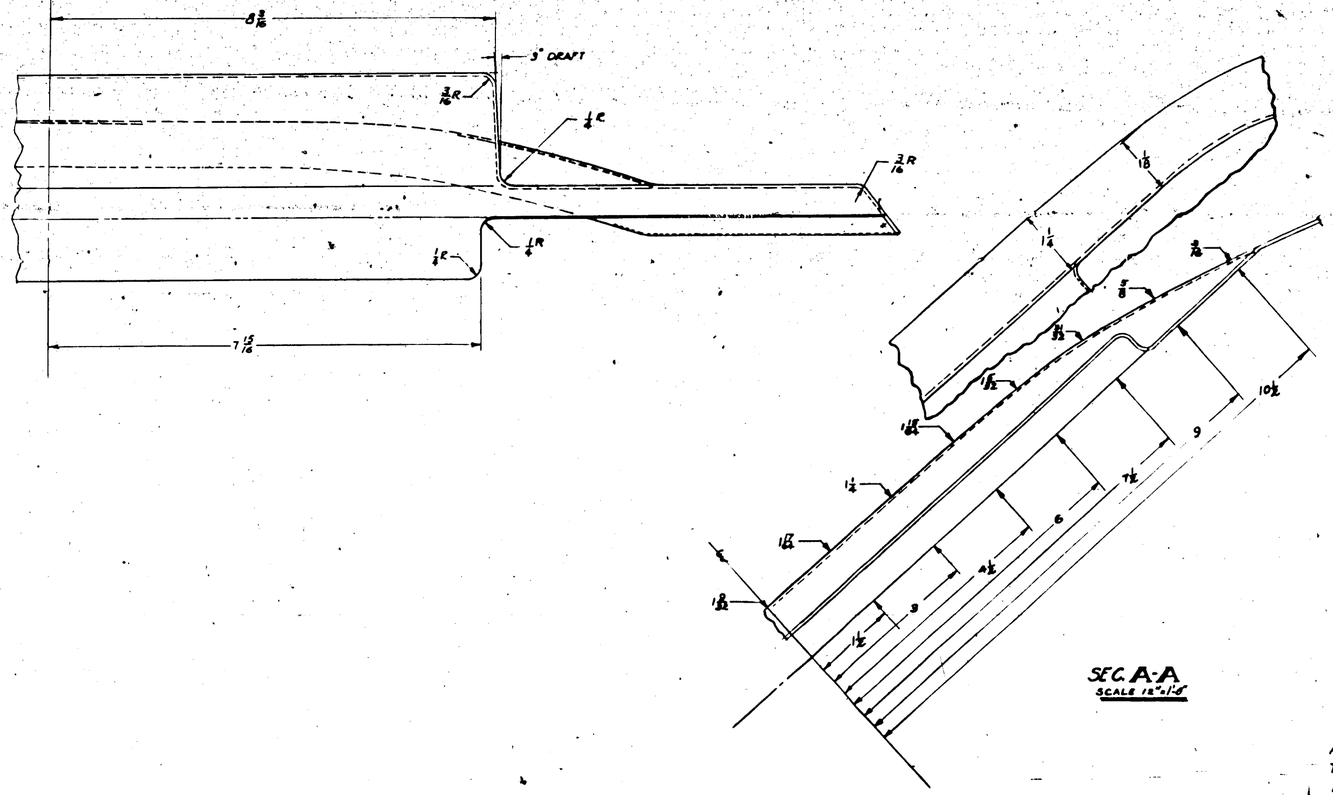
NOTES —
(1) THE FOLLOWING MAY BE PURCHASED FROM ELASTIC STOP NUT CORP, UNION, N.J.:-
CVAC #CHA 11-20 CAT NO. 6861-02-7X2.563, OR EQUIV.
CVAC #CHA 11-50-(3.938 - CAT. NO. 6861-02-8X(3.938), OR EQUIV.
CVAC #NU 28-40 - CAT. NO. 68821-6-02 OR EQUIV.
(2) LEAKS THRU SEAM WELDS MAY BE WATERSEALED BY RIVETING WITH Q 4303 D4 RIVETS.
(3) USE OF "AD" TYPE RIVETS IS OPTIONAL.

APPROVED FOR TOOLING BY FRUE 9-11-45

| | | | | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



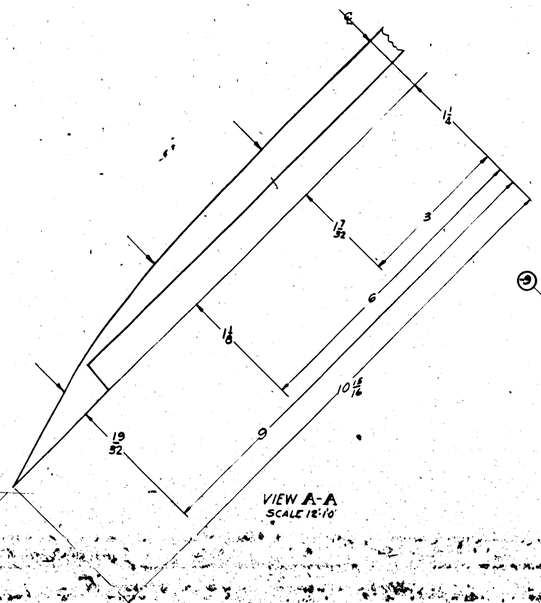


SEC. A-A
SCALE 12"=1'-0"

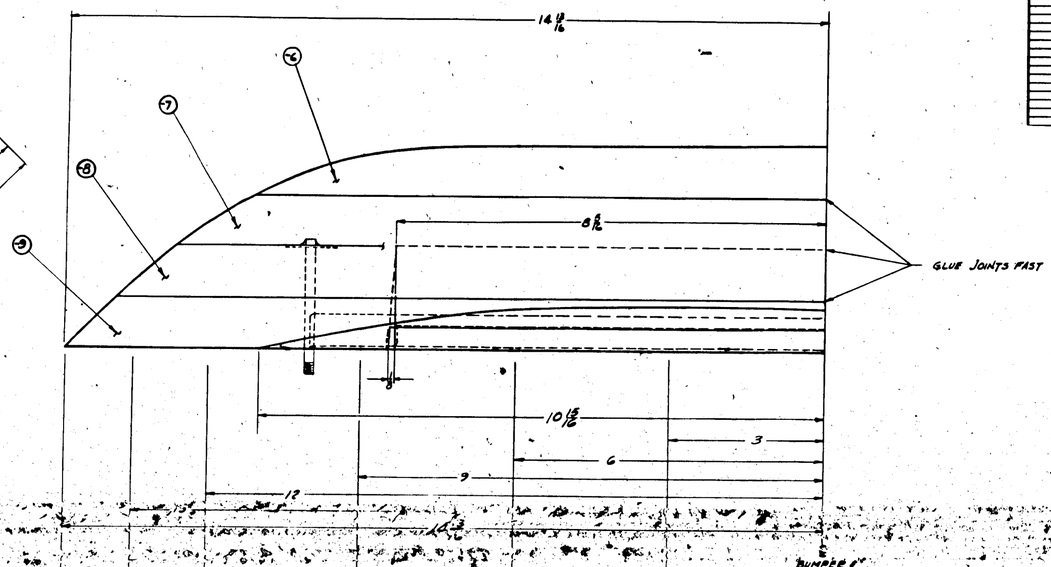
MCR# 272A-1

APPROVED FOR TOOLING BY FRUE 9-11-43

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY

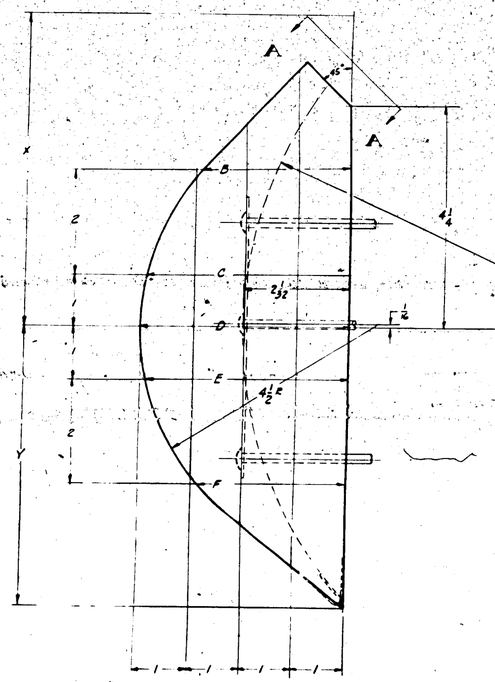


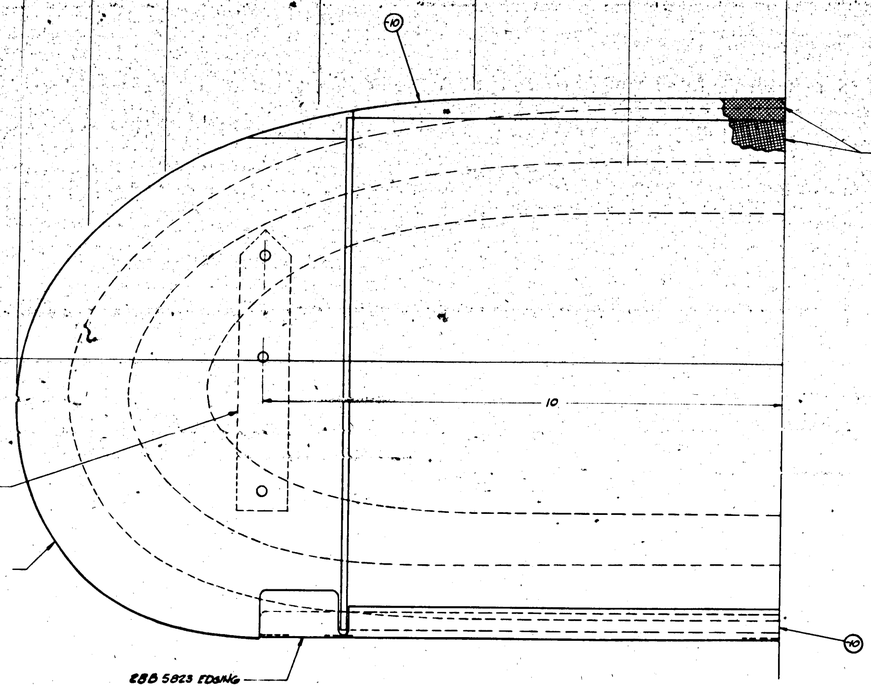
VIEW A-A
SCALE 12:10



GLUE JOINTS FAST

BUMPER SYMMETRY





(10)

(11) WHITE DUCK COVERING C.V.A.C. FAB-8. GLUE FAST. ADD ADHESIVE TAPE AT SHARP EDGES AROUND ENDS.

SECTION						
	0&3	6	9	12	15
X	6	5 3/4	5 3/4	5 1/2	6 1/4
B		2 3/4	2	1 9/32	
C			3 1/4	2 1/4	2 3/32
D	USE 4 C.		3 1/4	2 3/4	1 7/32
E			3 1/4	2 1/4	1 1/32
F			2 3/4	1 3/4	1 5/32
Y	5 3/4	5 3/4	5 3/4	5	4 1/4

NOTE: C.V.A.C. FAB-8 MAY BE PURCHASED FROM C.B. HENDRY CO. SAN DIEGO

MCR 272A-1

APPROVED FOR TOOLING BY
A Howard
3/17/43

PART NO.	STOCK	MATERIAL	SPEC.	LET	QTY REQ'D	LET	QTY REQ'D	LET	QTY REQ'D	LET	QTY REQ'D
		PARTS LIST PER ASSY.			-0		-2		-3		-4
	(FINAL FAIRING)										
-11	COVER		3 C.B.								
-10	2BB 5823		3 C.B.								
-9	1/2 x 3/4 x 10 1/4		3 C.B.								
-8	1/2 x 3/4 x 10		3 C.B.								
-7	1/2 x 3/4 x 9		3 C.B.								
-6	1/2 x 3/4 x 7		3 C.B.								
-5	1/2 x 3/4 x 4		3 C.B.								
-4	1/2 x 3/4 x 3		3 C.B.								
-3	1/2 x 3/4 x 2		3 C.B.								
-2	1/2 x 3/4 x 1		3 C.B.								
-1	1/2 x 3/4 x 1/2		3 C.B.								
-0	1/2 x 3/4 x 1/4		3 C.B.								

A.S.		9-8-43			
HEAT TREAT	GP	LOFTING			
HEAT TREAT	FINISH	DRAWING	DESIGN	STRUCT	DAT

NAME: BUMPER-NOSE

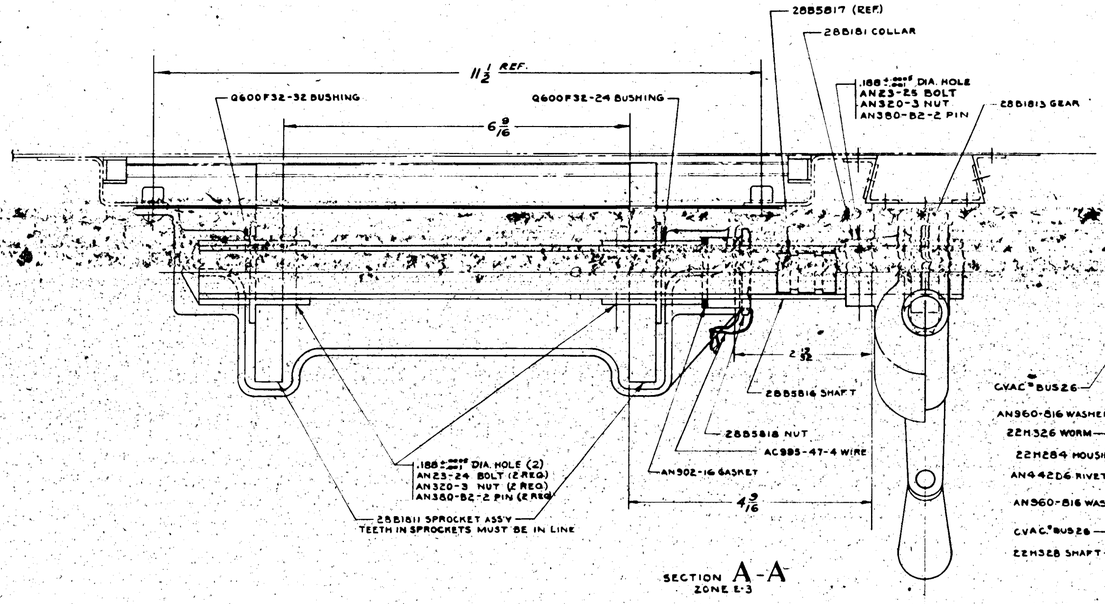
OPP HAND: None

SIZE: J

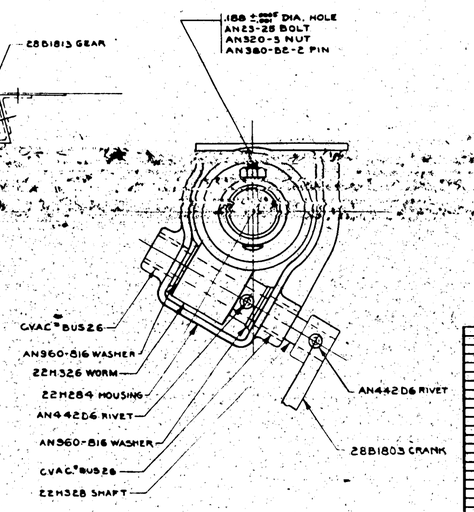
DWG NO.: 28B5808

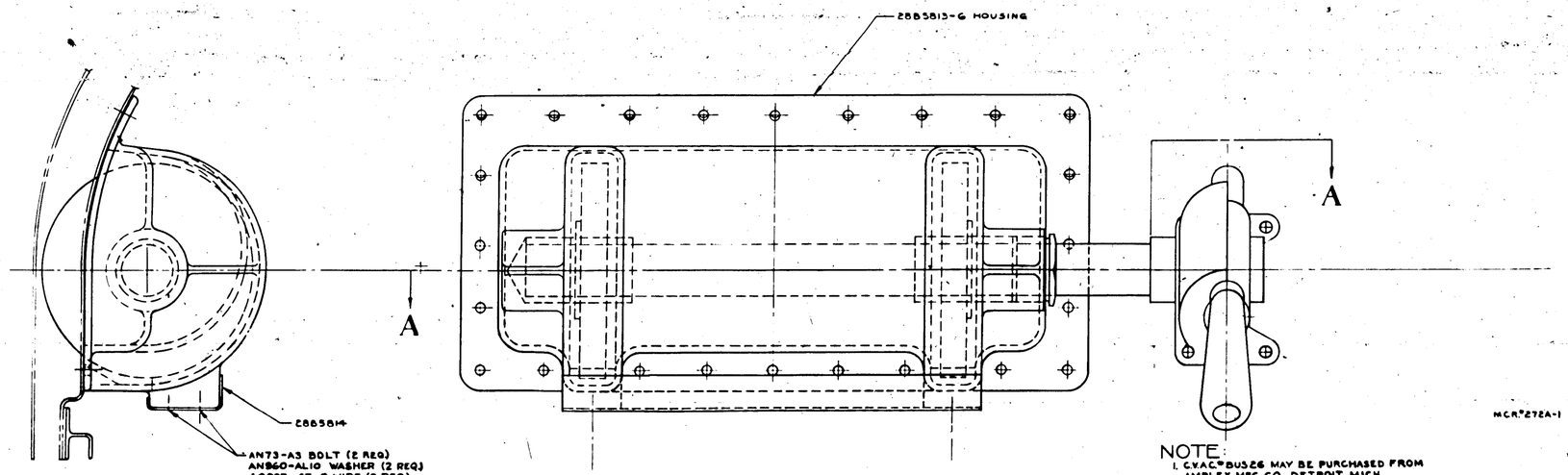
H 165

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



SECTION A-A
ZONE E-3





NOTE:
1. CVAC* BUS26 MAY BE PURCHASED FROM AMPLEX MFG. CO. DETROIT, MICH., VENDOR'S NO. A-604-1 OR EQUIVALENT.

MCR* 272A-1

APPROVED FOR TOOLING BY
F. Howarth
9/14/43

PART NO.	STOCK	MATERIAL	SPEC.	LH SH REQ	LH RH REQ	LH SH REQ	LH RH REQ
		PARTS LIST PER ASSY.		-0	-2	-3	-4
Q600F32-32				1		1	
Q600F32-24					1		1
CVAC* BUS26				2	2	2	2
AC995-47-4							
AC995-47-3							
A1Pw2-3/16							
AN960-A10							
AN902-16							
AN442D6							
AN380-B2-2							
AN320-3							
AN73-A3							
AN23-24							
AN23-E5							
28B5810				1		1	
28B5816				1		1	
2885814				1		1	
28B5813-G				1		1	
28B1813				1		1	
28B1811				1		1	
28B1803				1		1	
28B1801				1		1	
22H328				1		1	
22H326				1		1	
22H284				1		1	

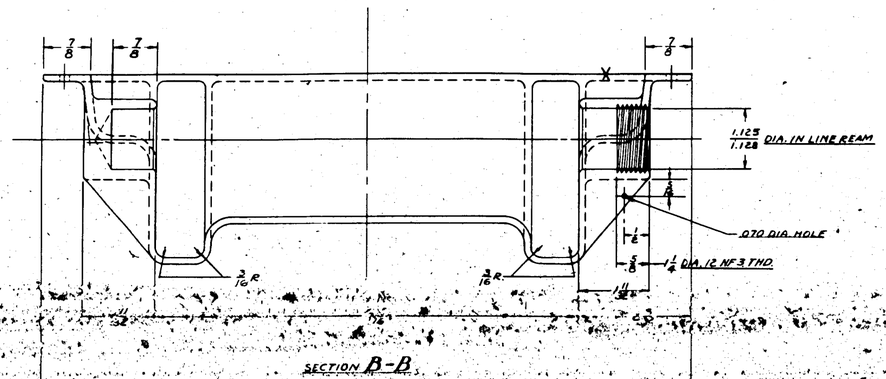
-0	P&T-3A	28B5880	1
LAST ISS. REQ.	MODEL	PART ASSY	ISS
REQUIREMENTS FOR AIRPLANE			
REPLACES	28B1800		445
REPLACED BY			QUAN PER
LAST ISS. REQUIREMENTS FOR AIRPLANE		SCALE	
1 1/32 & 1/2		12"=1'0"	
STAMP PART NUMBER WHERE SHOWN			

A-C			DESIGN		
NAVY NONE	ZGP		DRAFT	9-1-43	
HEAT TREAT	FINISH		CHECK	DAT	APPROVED
NAME MECHANISM ASSEMBLY-BOMBER'S WINDOW SHUTTER OPERATING			SIZE J	DWG 28B5811	
			OFF BOARD	NONE	

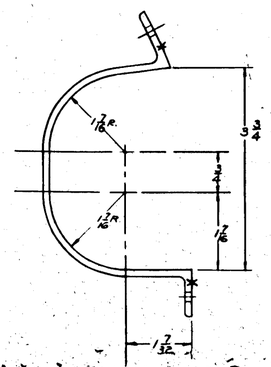
H 166

R 28B5811

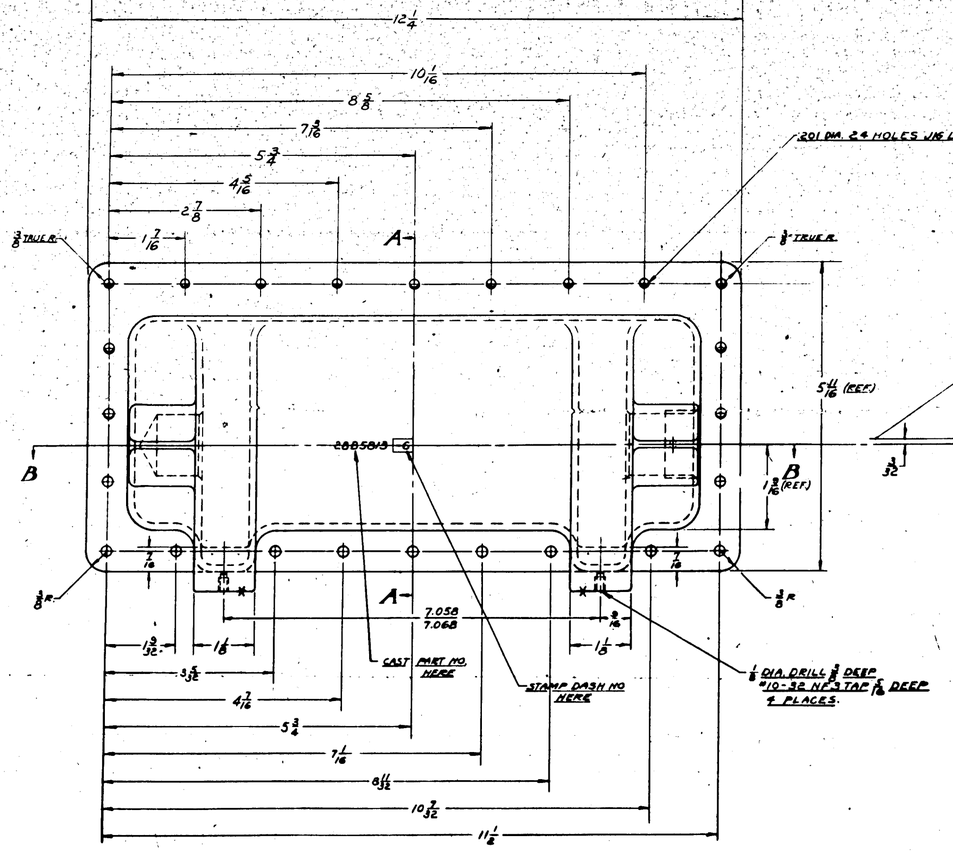
LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY

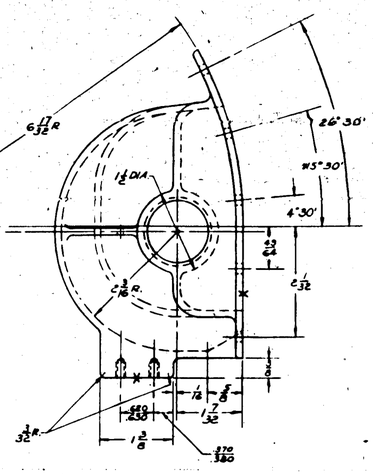


SECTION B-B



SECTION A-A





NOTES:
1. ALL FILLETS 1/8 R. UNLESS NOTED OTHERWISE.
2. ALL ROUNDED EDGES 1/16 R. UNLESS NOTED OTHERWISE.
3. ALL UNDIMENSIONED RADII 3/8
4. SURFACES INDICATED BY ASTERISK (*) ARE TO BE THE CONVENTIONAL FINISH UNLESS CASTING IS MADE BY PERMANENT MOLD, ANTIOCH, VIBRANIUM OR EQUIVALENT PROCESS.
5. ALL WALLS 1/8 THICK

APPROVED FOR TOOLING BY
9/11-48

MCR #272-A1

-6	PAY-BA MARSHALL												
LAST USED ON ASSY.	MODEL	NEXT ASSY	QTY.										
REQUIREMENTS PER AIRPLANE													
DUPLICATE 28B1201-9		1	8										
DUPLICATE ON	684-1006		SERIAL NO.										
DUPLICATE BY			QTY. PER.										
LAST AS BUILDING BLOCK DRAWING	SCALE												
1/32	12"=1'-0"												
STAMP PART NUMBER, DRAWING CHANGE													

-6 MADE FROM ROUGH CASTING

PART NO.	STOCK	MATERIAL	SPEC.	LIT	DIE	LIT	DIE	LIT	DIE	LIT	DIE
	4 1/2 DIA R CASTING	AL. ALL	AN-QQ-A-250	REQ.	NO.	REQ.	NO.	REQ.	NO.	REQ.	NO.
PARTS LIST PER ASSY.				4		-0		-2		-3		-4		-5	

A.S.			DESIGN	9-1-48		
PAINT NONE	X — P		DRAFT	9-1-48		
HEAT TREAT	FINISH		STRESS	DATE	APPROV.	DWG.

NAME HOUSING-BOMBER'S WINDOW SHUTTER OPERATING MECHANISM

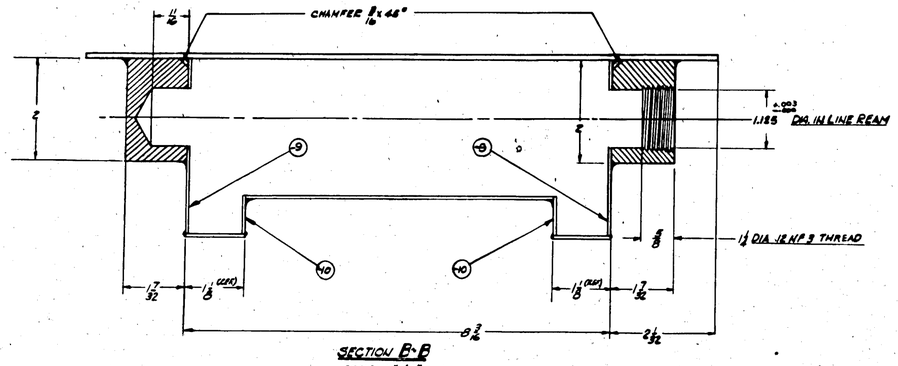
DEF NAME NONE

SIZE J | DWG. NO. 28B5813

H 167

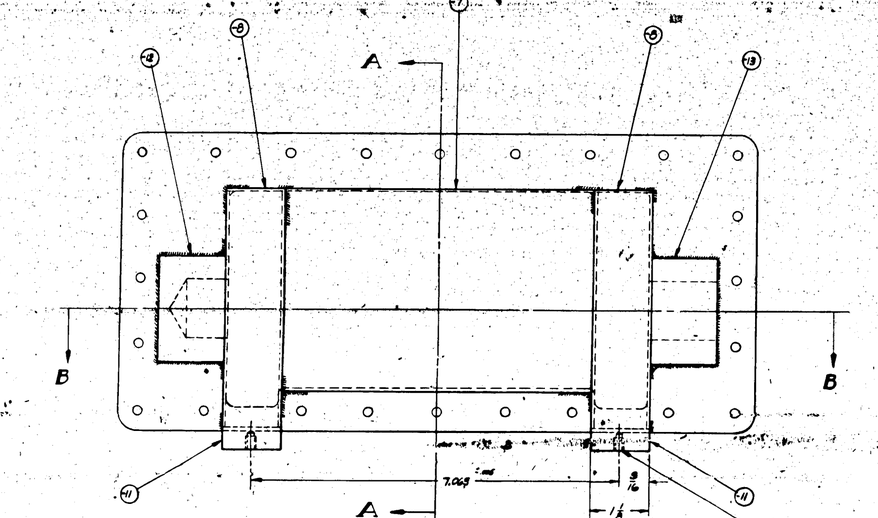
R C10 C9 97

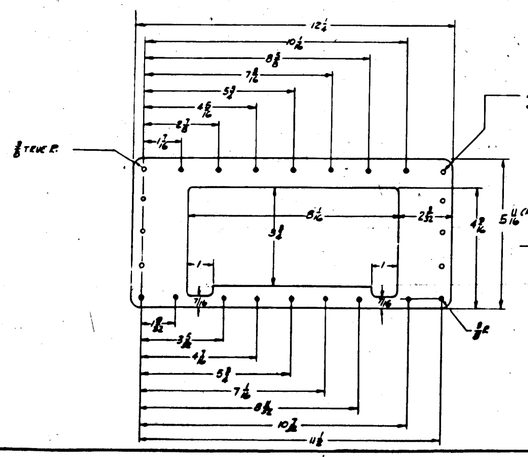
LET	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY



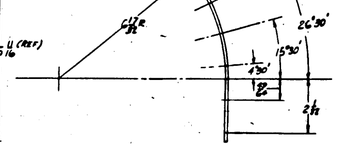
SECTION B-B
SCALE: 12"=1'-0"

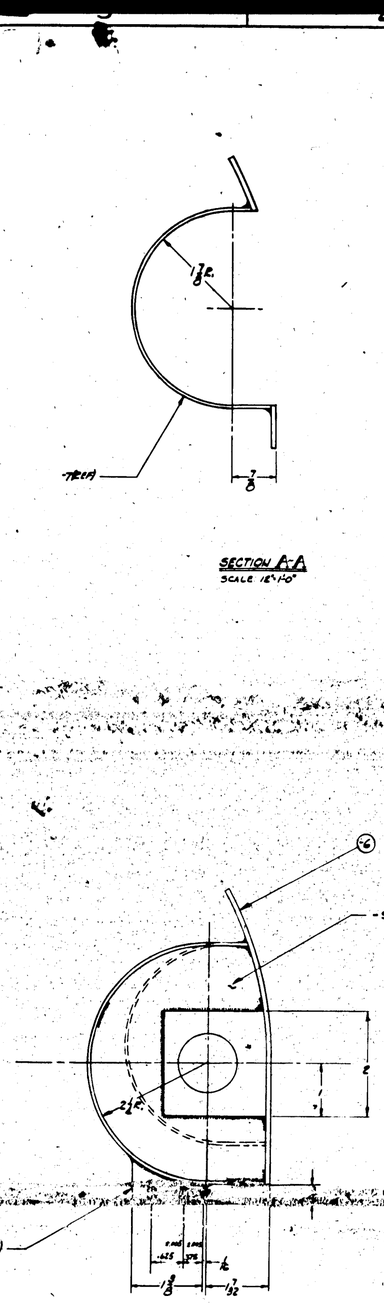
SECTION A-A
SCALE 12"=1'-0"





DETAIL-G
SCALE 6"=1'-0"





NOTE: ALL WELDED JOINTS TO BE WATER TIGHT

ALTERNATE & INTERCHANGEABLE WITH 28B5813 CASTING

MATERIALS NOTE:

	MAY BE MADE FROM:	MATERIAL	SPEC.
-6		A CHR. MOLY SHEET STL	AN-QQ-S-685
		B CARBON SHEET STL	AN-S-11
-7		A CHR. MOLY SHEET STL	AN-QQ-S-685
		B CARBON SHEET STL	AN-S-11
-8		A CHR. MOLY SHEET STL	AN-QQ-S-685
		B CARBON SHEET STL	AN-S-11
-9		A CHR. MOLY SHEET STL	AN-QQ-S-685
		B CARBON SHEET STL	AN-S-11
-10		A CHR. MOLY SHEET STL	AN-QQ-S-685
		B CARBON SHEET STL	AN-S-11
-11		A CHR. MOLY BAR STL	AN-QQ-S-684
		B LOW CARBON BAR STL	AN-QQ-S-646
-12		A CHR. MOLY BAR STL	AN-QQ-S-684
		B LOW CARBON BAR STL	AN-QQ-S-646
-13		A CHR. MOLY BAR STL	AN-QQ-S-684
		B LOW CARBON BAR STL	AN-QQ-S-646

NORMALIZE CHR. MOLY STEELS 90,000-125,000 #/□

CARBON STEELS-NO HEAT TREAT

MCR 272-A-2

APPROVED FOR TOOLING BY C. SHILK 9-15-43

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ	LH REQ	LH REQ	LH REQ	LH REQ
		PARTS LIST PER ASSY.		-0	-2	-3	-4	-5
-13	2 x 2 x 1 1/4	NOTED	NOTED	1				
-12	4 x 4 x 1 1/4			1				
-11	4 1/4 x 4 1/4 x 1 1/4			1				
-10	3 x 4 1/4 x 3 1/4			1				
-9	3 x 3 1/2 x 1 1/4			1				
-8	3 x 7 3/8 x 1 1/4			1				
-7	4 x 3 1/2 x 1 1/4			1				
-6	3 3/8 x 4 1/2 x 1 1/2	NOTED	NOTED	1				

A-C	NOTED	CAD PLATE		B-H-A	
HEAT TREAT		Finish		GRAIN	STRUCT.

NAME HOUSING ASSY-BOMBERS WINDOW SHUTTER OPERATING MECHANISM

SIZE J | DWG. NO. 28B5826

H 168

R 28B5826

SECTION E-E
SCALE 3"=1'0"

SECTION C-C
SCALE 6"=1'0"

SECTION D-D
SCALE 6"=1'0"

SECTION A-A
SCALE 6"=1'0"

DETAIL OF -32
SCALE 6"=1'0"

LOWER CONTOUR ORDINATE

BEARING FOR BOOGIE LEG SHAFT

LOWER AFT - AN526DD1032-10 (L)
ALL OTHERS AN526DD1032-8
FOR LOCATIONS SEE ALSO 28B1017 (REF)

ALL RIVETS ATTACHING STEP TO BE AN426-D4 UNLESS OTHERWISE NOTED

CLOSEST TO (L) AN526DD1032-10
ALL OTHERS AN526DD1032-8
FOR LOCATIONS SEE ALSO 28B1017 (REF)

RIVET TO -104-111

Q4305-D4 RIVETS FLUSH ON INSIDE OF -104-111

Q4305-D4 SPACE 1/8 STAGGERED

Q4305-D4 SPACE 1/4 STAGGERED

AN526DD1032-8 AC366-DF1032 Q7105-AD AN425-D3 AN365A10L

68-A17-02

DRAIN SLOT

DECK LINE

SEE SECTION A-A ON DWG 28B5006 FOR APPROX SHAPE

28B5005-111 (J)

CVAC #AS-43 55-200 SPRING

28B5017-133 SUB ASSY RH SIDE
28B5017-134 SUB ASSY LH SIDE

NOTE-
FOR CONSTRUCTION DETAILS AND INFORMATION NOT GIVEN ON THIS DWG SEE 28B1017
PARTS NOT DIMENSIONED ON THIS DWG ARE TO BE LOCATED FROM CORRESPONDING PARTS ON DWG 28B1017.

ALL EXTERNAL RIVETS TO BE Q4305-D4 AND INTERNAL RIVETS AN426-D5 UNLESS OTHERWISE NOTED.

MATL NOTE:
REPLACE -17 WITH FERROX DECK COATING OR EQUIV MAY BE PURCHASED FROM AMERICAN ABRASIVES METALS CO. OF IRVINGTON, N.J.

LET	ALTERATION	DATE	BY
A	ADDED 2 RIVETS AT -104 & -111	2-27-43	
B	ADDED 2 RIVETS AT -104 & -111	3-5-43	
C	ADDED 2 RIVETS AT -104 & -111	3-8-43	
D	ADDED 2 RIVETS AT -104 & -111	3-10-43	
E	ADDED 2 RIVETS AT -104 & -111	3-12-43	
F	ADDED 2 RIVETS AT -104 & -111	3-15-43	
G	ADDED 2 RIVETS AT -104 & -111	3-17-43	
H	ADDED 2 RIVETS AT -104 & -111	3-19-43	
J	ADDED 2 RIVETS AT -104 & -111	3-22-43	
K	ADDED 2 RIVETS AT -104 & -111	3-24-43	
L	ADDED 2 RIVETS AT -104 & -111	3-26-43	
M	ADDED 2 RIVETS AT -104 & -111	3-29-43	
N	ADDED 2 RIVETS AT -104 & -111	4-1-43	
P	ADDED 2 RIVETS AT -104 & -111	4-3-43	
R	ADDED 2 RIVETS AT -104 & -111	4-5-43	
S	ADDED 2 RIVETS AT -104 & -111	4-7-43	
T	ADDED 2 RIVETS AT -104 & -111	4-9-43	
U	ADDED 2 RIVETS AT -104 & -111	4-11-43	
V	ADDED 2 RIVETS AT -104 & -111	4-13-43	
W	ADDED 2 RIVETS AT -104 & -111	4-15-43	
X	ADDED 2 RIVETS AT -104 & -111	4-17-43	
Y	ADDED 2 RIVETS AT -104 & -111	4-19-43	
Z	ADDED 2 RIVETS AT -104 & -111	4-21-43	
AA	ADDED 2 RIVETS AT -104 & -111	4-23-43	
AB	ADDED 2 RIVETS AT -104 & -111	4-25-43	
AC	ADDED 2 RIVETS AT -104 & -111	4-27-43	
AD	ADDED 2 RIVETS AT -104 & -111	4-29-43	
AE	ADDED 2 RIVETS AT -104 & -111	5-1-43	
AF	ADDED 2 RIVETS AT -104 & -111	5-3-43	
AG	ADDED 2 RIVETS AT -104 & -111	5-5-43	
AH	ADDED 2 RIVETS AT -104 & -111	5-7-43	
AJ	ADDED 2 RIVETS AT -104 & -111	5-9-43	
AK	ADDED 2 RIVETS AT -104 & -111	5-11-43	
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AM	ADDED 2 RIVETS AT -104 & -111	5-15-43	
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AU	ADDED 2 RIVETS AT -104 & -111	5-27-43	
AV	ADDED 2 RIVETS AT -104 & -111	5-29-43	
AW	ADDED 2 RIVETS AT -104 & -111	5-31-43	
AX	ADDED 2 RIVETS AT -104 & -111	6-2-43	
AY	ADDED 2 RIVETS AT -104 & -111	6-4-43	
AZ	ADDED 2 RIVETS AT -104 & -111	6-6-43	
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BB	ADDED 2 RIVETS AT -104 & -111	6-10-43	
BC	ADDED 2 RIVETS AT -104 & -111	6-12-43	
BD	ADDED 2 RIVETS AT -104 & -111	6-14-43	
BE	ADDED 2 RIVETS AT -104 & -111	6-16-43	
BF	ADDED 2 RIVETS AT -104 & -111	6-18-43	
BG	ADDED 2 RIVETS AT -104 & -111	6-20-43	
BH	ADDED 2 RIVETS AT -104 & -111	6-22-43	
BJ	ADDED 2 RIVETS AT -104 & -111	6-24-43	
BK	ADDED 2 RIVETS AT -104 & -111	6-26-43	
BL	ADDED 2 RIVETS AT -104 & -111	6-28-43	
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BN	ADDED 2 RIVETS AT -104 & -111	7-2-43	
BP	ADDED 2 RIVETS AT -104 & -111	7-4-43	
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BS	ADDED 2 RIVETS AT -104 & -111	7-8-43	
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BU	ADDED 2 RIVETS AT -104 & -111	7-12-43	
BV	ADDED 2 RIVETS AT -104 & -111	7-14-43	
BW	ADDED 2 RIVETS AT -104 & -111	7-16-43	
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CF	ADDED 2 RIVETS AT -104 & -111	8-3-43	
CG	ADDED 2 RIVETS AT -104 & -111	8-5-43	
CH	ADDED 2 RIVETS AT -104 & -111	8-7-43	
CJ	ADDED 2 RIVETS AT -104 & -111	8-9-43	
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CU	ADDED 2 RIVETS AT -104 & -111	8-27-43	
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EH	ADDED 2 RIVETS AT -104 & -111	11-7-43	
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ER	ADDED 2 RIVETS AT -104 & -111	11-21-43	
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GD	ADDED 2 RIVETS AT -104 & -111	1-30-44	
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GF	ADDED 2 RIVETS AT -104 & -111	2-3-44	
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GR	ADDED 2 RIVETS AT -104 & -111	2-21-44	
GS	ADDED 2 RIVETS AT -104 & -111	2-23-44	
GT	ADDED 2 RIVETS AT -104 & -111	2-25-44	
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LB	ADDED 2 RIVETS AT -104 & -111	7-28-44	
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LE	ADDED 2 RIVETS AT -104 & -111	8-3-44	
LF	ADDED 2 RIVETS AT -104 & -111	8-5-44	
LG	ADDED 2 RIVETS AT -104 & -111	8-7-44	
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LP	ADDED 2 RIVETS AT -104 & -111	8-21-44	
LR	ADDED 2 RIVETS AT -104 & -111	8-23-44	
LS	ADDED 2 RIVETS AT -104 & -111	8-25-44	
LT	ADDED 2 RIVETS AT -104 & -111	8-27-44	
LU	ADDED 2 RIVETS AT -104 & -111	8-29-44	
LV	ADDED 2 RIVETS AT -104 & -111	8-31-44	
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LX	ADDED 2 RIVETS AT -104 & -111	9-4-44	
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LZ	ADDED 2 RIVETS AT -104 & -111	9-8-44	
MA	ADDED 2 RIVETS AT -104 & -111	9-10-44	
MB	ADDED 2 RIVETS AT -104 & -111	9-12-44	
MC	ADDED 2 RIVETS AT -104 & -111	9-14-44	
MD	ADDED 2 RIVETS AT -104 & -111	9-16-44	
ME	ADDED 2 RIVETS AT -104 & -111	9-18-44	
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MG	ADDED 2 RIVETS AT -104 & -111	9-22-44	
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NF	ADDED 2 RIVETS AT -104 & -111	11-5-44	
NG	ADDED 2 RIVETS AT -104 & -111	11-7-44	
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NK	ADDED 2 RIVETS AT -104 & -111	11-13-44	
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NY	ADDED 2 RIVETS AT -104 & -111	12-7-44	
NZ	ADDED 2 RIVETS AT -104 & -111	12-9-44	
PA	ADDED 2 RIVETS AT -104 & -111	12-11-44	
PB	ADDED 2 RIVETS AT -104 & -111	12-13-44	
PC	ADDED 2 RIVETS AT -104 & -111	12-15-44	
PD	ADDED 2 RIVETS AT -104 & -111	12-17-44	
PE	ADDED 2 RIVETS AT -104 & -111	12-19-44	
PF	ADDED 2 RIVETS AT -104 & -111	12-21-44	
PG	ADDED 2 RIVETS AT -104 & -111	12-23-44	
PH	ADDED 2 RIVETS AT -104 & -111	12-25-44	
PJ	ADDED 2 RIVETS AT -104 & -111	12-27-44	
PK	ADDED 2 RIVETS AT -104 & -111	12-29-44	
PL	ADDED 2 RIVETS AT -104 & -111	12-31-44	
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PN	ADDED 2 RIVETS AT -104 & -111	1-4-45	
PP	ADDED 2 RIVETS AT -104 & -111	1-6-45	
PR	ADDED 2 RIVETS AT -104 & -111	1-8-45	
PS	ADDED 2 RIVETS AT -104 & -111	1-10-45	
PT	ADDED 2 RIVETS AT -104 & -111	1-12-45	
PU	ADDED 2 RIVETS AT -104 & -111	1-14-45	
PV	ADDED 2 RIVETS AT -104 & -111	1-16-45	
PW	ADDED 2 RIVETS AT -104 & -111	1-18-45	
PX	ADDED 2 RIVETS AT -104 & -111	1-20-45	
PY	ADDED 2 RIVETS AT -104 & -111	1-22-45	
PZ	ADDED 2 RIVETS AT -104 & -111	1-24-45	
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QB	ADDED 2 RIVETS AT -104 & -111	1-28-45	
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QD	ADDED 2 RIVETS AT -104 & -111	2-1-45	
QE	ADDED 2 RIVETS AT -104 & -111	2-3-45	
QF	ADDED 2 RIVETS AT -104 & -111	2-5-45	
QG	ADDED 2 RIVETS AT -104 & -111	2-7-45	
QH	ADDED 2 RIVETS AT -104 & -111	2-9-45	
QJ	ADDED 2 RIVETS AT -104 & -111	2-11-45	
QK	ADDED 2 RIVETS AT -104 & -111	2-13-45	
QL	ADDED 2 RIVETS AT -104 & -111	2-15-45	
QM	ADDED 2 RIVETS AT -104 & -111	2-17-45	
QN	ADDED 2 RIVETS AT -104 & -111	2-19-45	
QP	ADDED 2 RIVETS AT -104 & -111	2-21-45	
QR	ADDED 2 RIVETS AT -104 & -111	2-23-45	
QS	ADDED 2 RIVETS AT -104 & -111	2-25-45	
QT	ADDED 2 RIVETS AT -104 & -111	2-27-45	
QU	ADDED 2 RIVETS AT -104 & -111	2-29-45	
QV	ADDED 2 RIVETS AT -104 & -111	3-2-45	
QW	ADDED 2 RIVETS AT -104 & -111	3-4-45	
QX	ADDED 2 RIVETS AT -104 & -111	3-6-45	
QY	ADDED 2 RIVETS AT -104 & -111	3-8-45	
QZ	ADDED 2 RIVETS AT -104 & -111	3-10-45	
RA	ADDED 2 RIVETS AT -104 & -111	3-12-45	
RB	ADDED 2 RIVETS AT -104 & -111	3-14-45	
RC	ADDED 2 RIVETS AT -104 & -111	3-16-45	
RD	ADDED 2 RIVETS AT -104 & -111	3-18-45	
RE	ADDED 2 RIVETS AT -104 & -111	3-20-45	
RF	ADDED 2 RIVETS AT -104 & -111	3-22-45	
RG	ADDED 2 RIVETS AT -104 & -111	3-24-45	
RH	ADDED 2 RIVETS AT -104 & -111	3-26-45	
RJ	ADDED 2 RIVETS AT -104 & -111	3-28-45	
RK	ADDED 2 RIVETS AT -104 & -111	3-30-45	
RL	ADDED 2 RIVETS AT -104 & -111	4-1-45	
RM	ADDED 2 RIVETS AT -104 & -111	4-3-45	
RN	ADDED 2 RIVETS AT -104 & -111	4-5-45	
RP	ADDED 2 RIVETS AT -104 & -111	4-7-45	
RR	ADDED 2 RIVETS AT -104 & -111	4-9-45	
RS	ADDED 2 RIVETS AT -104 & -111	4-11-45	
RT	ADDED 2 RIVETS AT -104 & -111	4-13-45	
RU	ADDED 2 RIVETS AT -104 & -111	4-15-45	
RV	ADDED 2 RIVETS AT -104 & -111	4-17-45	
RW	ADDED 2 RIVETS AT -104 & -111	4-19-45	
RX	ADDED 2 RIVETS AT -104 & -111	4-21-45	
RY	ADDED 2 RIVETS AT -104 & -111	4-23-45	
RZ	ADDED 2 RIVETS AT -104 & -111	4-25-45	
SA	ADDED 2 RIVETS AT -104 & -111	4-27-45	
SB	ADDED 2 RIVETS AT -104 & -111	4-29-45	
SC	ADDED 2 RIVETS AT -104 & -111	5-1-45	
SD	ADDED 2 RIVETS AT -104 & -111	5-3-45	
SE	ADDED 2 RIVETS AT -104 & -111	5-5-45	
SF	ADDED 2 RIVETS AT -104 & -111	5-7-45	
SG	ADDED 2 RIVETS AT -104 & -111	5-9-45	
SH	ADDED 2 RIVETS AT -104 & -111	5-11-45	
SJ	ADDED 2 RIVETS AT -104 & -111	5-13-45	
SK	ADDED 2 RIVETS AT -104 & -111	5-15-45	
SL	ADDED 2 RIVETS AT -104 & -111	5-17-45	
SM	ADDED 2 RIVETS AT -104 & -111	5-19-45	
SN	ADDED 2 RIVETS AT -104 & -111	5-21-45	
SP	ADDED 2 RIVETS AT -104 & -111	5-23-45	
SR	ADDED 2 RIVETS AT -104 & -111	5-25-45	
SS	ADDED 2 RIVETS AT -104 & -111	5-27-45	
ST	ADDED 2 RIVETS AT -104 & -111	5-29-45	
SU	ADDED 2 RIVETS AT -104 & -111	5-31-45	
SV	ADDED 2 RIVETS AT -104 & -111	6-2-45	
SW	ADDED 2 RIVETS AT -104 & -111	6-4-45	
SX	ADDED 2 RIVETS AT -104 & -111	6-6-45	
SY	ADDED 2 RIVETS AT -104 & -111	6-8-45	
SZ	ADDED 2 RIVETS AT -104 & -111	6-10-45	
TA	ADDED 2 RIVETS AT -104 & -111	6-12-45	
TB	ADDED 2 RIVETS AT -104 & -111	6-14-45	
TC	ADDED 2 RIVETS AT -104 & -111	6-16-45	
TD	ADDED 2 RIVETS AT -104 & -111	6-18-45	
TE	ADDED 2 RIVETS AT -104 & -111	6-20-45	
TF	ADDED 2 RIVETS AT -

LET	ALTERATION	DATE	BY
	-8 IN -74 ASSYS WT CHG REQ	4-23-74	WALS
R	-ADDED -88 ASSY AS WT CHG	2-4-75	WALS
S	-ADDED -90 ASSY AS WT CHG	2-21-75	WALS
T	ADDED NOTE 34 ON BOTH		
	ADDED -88 ASSY FOR -18 & -19		
	ADDED RECLAIMED RUBBER		
	CEMENT INSTEAD OF WAS OR		
	ADDED WT CHG REQ	7-24-75	WALS
U	ADDED -94 ASSY ADDED -9		
	ADDED -96 ASSY ADDED -9		
	CHG -3 TO X 11 FA 4 & 3/8 ALSO		
	ADDED -98 ASSY ADDED -9		
	ADDED FA 4 ASSY ONLY A.F.		
	ADDED NOTE 34 (CEMENT)		
	DELETED -88 ASSY		
	ADDED -100 ASSY ADDED -9		
	ADDED 28B1033-73 (RECEIVE)		
	ADDED 28B1033-80 (RECEIVE)		
	ADDED 28B1094-80 ASSY FOR		
	ADDED 28B1094-90 ASSY FOR		
	PER T.S. 9-11-74 ADDED -96 ASSYS	9-16-74	WALS
	W.I. & W-J WT CHG REQ.		

LET	ALTERATION	DATE	BY
A	ADDED -93 ASSY FOR -8 SHIPS		
B	DELETED -93 ASSY FOR -8 SHIPS		
	ADDED -95 ASSY FOR -8 SHIPS		
	ADDED -97 ASSY FOR -8 SHIPS		
	ADDED -99 ASSY FOR -8 SHIPS		
	ADDED -101 ASSY FOR -8 SHIPS		
C	CHANGED LENGTH ONLY		
	FROM 237.25 TO 238.11 -8 FROM		
	238.11 TO 238.36 ADDED -94 & -96		
	ASSYS ADDED -9 ON -74 ASSYS		
D	CHANGED CONSTRUCTION		
	OF FA 4 & A5 PER F.O.		
E	REMOVED -94 ADDED -16		
F	ADDED HEAT TREAT NOTE		
	ADDED -104 ASSY		
G	ADDED NOTE 35 (FORMED SKIN)		
H	-90 ASSY DELETED ADDED -91		
	-92 ASSY ADDED PER F.O.		
	SKETCH		
J	AN525-D10-20 WAS AN520		
	-D10-19 AN526-D10-18 WAS		
	AN520-D10-17 FOR PART 1		
	AT 2 PLACES ONLY		
	ALL AMPHIBS, A5 PER F.O.		
K	ADDED -105 ASSY		
L	REMOVED 28B1833 ANGLE		
M	REDUCE 110 I. D. ON RIM		
N	-18 WAS 2 1/8 ON -1		
P	ADDED 5 TO -7 & -8 ASSYS		
Q	ADDED -8M TABS ON FA 4		
R	ADDED -18 & -19 PER F.O.		
S	-DID -18 & -19 DRAWING -8M		
T	-18 & -19 REV.		
U	-LOCK STOCK SIZE -18 FROM		
V	-DELETE -14 & -15 FROM -1		
W	ADDED -106 ASSY		
X	ADDED -107 ASSY		
Y	ADDED -108 ASSY		
Z	ADDED -109 ASSY		
AA	ADDED -110 ASSY		
AB	ADDED -111 ASSY		
AC	ADDED -112 ASSY		
AD	ADDED -113 ASSY		
AE	ADDED -114 ASSY		
AF	ADDED -115 ASSY		
AG	ADDED -116 ASSY		
AH	ADDED -117 ASSY		
AJ	ADDED -118 ASSY		
AK	ADDED -119 ASSY		
AL	ADDED -120 ASSY		
AM	ADDED -121 ASSY		
AN	ADDED -122 ASSY		
AP	ADDED -123 ASSY		
AQ	ADDED -124 ASSY		
AR	ADDED -125 ASSY		
AS	ADDED -126 ASSY		
AT	ADDED -127 ASSY		
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BV	ADDED -153 ASSY		
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CK	ADDED -167 ASSY		
CL	ADDED -168 ASSY		
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UB	ADDED -543 ASSY		
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UK	ADDED -551 ASSY		
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UN	ADDED -554 ASSY		
UP	ADDED -555 ASSY		
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UW	ADDED -562 ASSY		
UX	ADDED -563 ASSY		
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VB	ADDED -567 ASSY		
VC	ADDED -568 ASSY		
VD	ADDED -569 ASSY		
VE	ADDED -570 ASSY		
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VR	ADDED -581 ASSY		
VS	ADDED -582 ASSY		
VT	ADDED -583 ASSY		
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WU	ADDED -608 ASSY		
WV	ADDED -609 ASSY		
WW	ADDED -610 ASSY		
WX	ADDED -611 ASSY		
WY	ADDED -612 ASSY		
WZ	ADDED -613 ASSY		
XA	ADDED -614 ASSY		
XB	ADDED -615 ASSY		
XC	ADDED -616 ASSY		
XD	ADDED -617 ASSY		
XE	ADDED -618 ASSY		
XF	ADDED -619 ASSY		
XG	ADDED -620 ASSY		
XH	ADDED -621 ASSY		
XJ	ADDED -622 ASSY		
XK	ADDED -623 ASSY		
XL	ADDED -624 ASSY		
XM	ADDED -625 ASSY		
XN	ADDED -626 ASSY		
XP	ADDED -627 ASSY		
XQ	ADDED -628 ASSY		
XR	ADDED -629 ASSY		
XS	ADDED -630 ASSY		
XT	ADDED -631 ASSY		
XU	ADDED -632 ASSY		
XV	ADDED -633 ASSY		
XW	ADDED -634 ASSY		
XX	ADDED -635 ASSY		
XY	ADDED -636 ASSY		
XZ	ADDED -637 ASSY		
YA	ADDED -638 ASSY		
YB	ADDED -639 ASSY		
YC	ADDED -640 ASSY		
YD	ADDED -641 ASSY		
YE	ADDED -642 ASSY		
YF	ADDED -643 ASSY		
YG	ADDED -644 ASSY		
YH	ADDED -645 ASSY		
YJ	ADDED -646 ASSY		
YK	ADDED -647 ASSY		
YL	ADDED -648 ASSY		
YM	ADDED -649 ASSY		
YN	ADDED -650 ASSY		
YP	ADDED -651 ASSY		
YQ	ADDED -652 ASSY		
YR	ADDED -653 ASSY		
YS	ADDED -654 ASSY		
YT	ADDED -655 ASSY		
YU	ADDED -656 ASSY		
YV	ADDED -657 ASSY		
YW	ADDED -658 ASSY		
YX	ADDED -659 ASSY		
YY	ADDED -660 ASSY		
YZ	ADDED -661 ASSY		
ZA	ADDED -662 ASSY		
ZB	ADDED -663 ASSY		
ZC	ADDED -664 ASSY		
ZD	ADDED -665 ASSY		
ZE	ADDED -666 ASSY		
ZF	ADDED -667 ASSY		
ZG	ADDED -668 ASSY		
ZH	ADDED -669 ASSY		
ZJ	ADDED -670 ASSY		
ZK	ADDED -671 ASSY		
ZL	ADDED -672 ASSY		
ZM	ADDED -673 ASSY		
ZN	ADDED -674 ASSY		
ZP	ADDED -675 ASSY		
ZQ	ADDED -676 ASSY		
ZR	ADDED -677 ASSY		
ZS	ADDED -678 ASSY		
ZT	ADDED -679 ASSY		
ZU	ADDED -680 ASSY		
ZV	ADDED -681 ASSY		
ZW	ADDED -682 ASSY		
ZX	ADDED -683 ASSY		
ZY	ADDED -684 ASSY		
ZZ	ADDED -685 ASSY		

TO ASSY AND 28-5 TO AS5028-0 PA5997-6

F.O. 21676

PB7-5

F.O. 2.1108 PB7-5

F.O. 21108 PB7-5

F.O. 21108 PB7-5

F.O. 21

H 171

VIEW SHOWN - PORT SIDE - LOOKING FORWARD

NOTES:
1. FOR OUTSIDE CONTOUR SEE 28B003
2. FOR STRINGER LOCATIONS SEE 28B1007
3. H.T. ALL COND. A MAT. PER SPEC. SR-53
4. ALL RIVETS AN426D
5. MATERIAL FOR -14½R, 15¼, -18 MAY BE: (A) Y-2-A28T, OR (B) K3401, AL AL. EXT. SPEC-QQ-A-354-T

SECTION E-E FULL SIZE

DETAIL H

SECT D-D FULL SIZE

SECTION G-G

SECTION L-L

SECTION J-J FULL SIZE

SECTION B-B FULL SIZE

SECTION A-A FULL SIZE

SECTION C-C FULL SIZE

SECTION K-K FOR -2 ASSY. PORT SIDE ONLY

DETAIL OF 28B5309 FULL SIZE

FULL SIZE

DRILL #6(.209) FOR 4 #10-32 MACHINE SCREWS

.064 TEMPORARY TIE PLATE

KEEL PLATE

TWIST FLANGE PARALLEL TO KEEL IN THIS LENGTH

TRIM FLANGE FROM 1½ TO 1 IN THIS LENGTH

BELTFRAME SYM ABOUT ℄

THIS ANGLE IS PART OF KEEL

SYM	ALTERATION	BY	DATE
A	5½ E -18 ON FACE, ADDED MAT. NOTE 5, NO WT CHG.		17-2-48

SYM	REVISIONS	DATE
A	ADDED -14½R, -15¼, -18 (REF)	5-DEC-47
B	CHANGED -2 ASSY. TO -2 ASSY. ONLY	
C	ADDED -14 REF, -15 REF	
D	ADDED -10 REF	
E	ADDED -9 REF	
F	ADDED -8 REF	
G	CHANGED -7 MADE LH & RH ONLY	
H	ADDED -12 LH SIDE ONLY	
J	ADDED -11 RH SIDE ONLY	
K	ADDED -13 REF	
L	ADDED -14 REF	
M	ADDED -15 REF	
N	ADDED -16 REF	
P	ADDED -18 REF	
R	ADDED -10 REF FROM -2 ASSY.	5-DEC-47
S	ADDED -8 REF FROM -2 ASSY.	5-DEC-47
T	ADDED -9 REF FROM -2 ASSY.	5-DEC-47
U	ADDED -10 REF FROM -2 ASSY.	5-DEC-47
V	ADDED -11 REF FROM -2 ASSY.	5-DEC-47
W	ADDED -12 REF FROM -2 ASSY.	5-DEC-47
X	ADDED -13 REF FROM -2 ASSY.	5-DEC-47
Y	ADDED -14 REF FROM -2 ASSY.	5-DEC-47
Z	ADDED -15 REF FROM -2 ASSY.	5-DEC-47
AA	ADDED -16 REF FROM -2 ASSY.	5-DEC-47
AB	ADDED -18 REF FROM -2 ASSY.	5-DEC-47
AC	ADDED -2 ASSY.	5-DEC-47

FINISH CODE	
A	ANODIC TREATMENT
P	ZQ PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

+ = RIVETS	(SIZE INDICATED AT INTERVALS BY THE FOLLOWING SYMBOLS)
-⅛	-5/32
-¼	-5/16
	-3/32
	-3/16
	-⅜

PART NO.	STOCK	MATERIAL	SPEC	-1	-2	-3	-4
PARTS LIST PER ASSY							
-1	2024-T4 CLAD	2024 ALCLAD	QQ-A-250/4	1			
-2	2024-T4 CLAD	2024 ALCLAD	QQ-A-250/4		1		
-3	2024-T4 CLAD	2024 ALCLAD	QQ-A-250/4			1	
-4	2024-T4 CLAD	2024 ALCLAD	QQ-A-250/4				1

NAME BELTFRAME - HULL STA. 4.25

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SIZE J — DWG NO. 28B5425

R 28B5425

O.K. FILE

SKIN LINE

DETAIL M FOR -0 ASS'Y
8TH STRINGER OUTBOARD FROM KEEL
STARBOARD SIDE ONLY.

SECTION E-E
FULL SIZE

FOR STRINGER CUTOUTS SEE 28B 5425

LH SIDE ONLY FOR PBY-5 & PBY-5A ONLY.

FLANGE OF -6 IS TANGENT TO THIS CIRCLE

28B34-25-17L -17R

28B5425-6L 28B5425-6R

28B5425-16

28B1450-75L N 28B1450-76R N

28B1450-77L N 28B1450-78R N

28B1450-79L 28B1450-80R

28B5425-10L 28B5425-10R

28B5425 28B5427-14L -14R

SEE 28B5425 DETAIL H

LH SIDE ONLY (NOT USED ON PBY-5 & PBY-5A)

ON -2 ASSY LOCATE DIAG. BRACE IN THIS POSITION

28B5509 28B5425-14L (FOR C.N. 91876 PORT SIDE ONLY)

BELTFRAME SYM. ABOUT ℄

28B5425-9

8TH STRINGER (REF) SEE DETAIL "M"

7 TH STRINGER (REF)

VIEW SHOWN - PORT SIDE - LOOKING FORWARD

SEE 28B5425 FOR SECTIONS A-A, B-B, C-C, D-D, F-F, & G-G.

FOR OUTSIDE CONTOUR SEE 28B003

FOR STRINGER LOCATIONS SEE 28B1007

MATL ALL COND. A MAT. PER SPEC. SR-53

ALL RIVETS AN 442 D

LET	ALTERATION	DATE	BY
	10060 22-23-25-26 R.F.	2-27-43	
C	-1 REQ'D -2 REQ'D	3-13-43	
D	-17 (R) WAS 28B5429-13	3-19-43	
	-17 (L) WAS 28B5429-14	3-19-43	
	REDUCED 30B3/8-16L REQ'D TO 7 (L) PART REMOVED FROM FR 22 SIDE OF -2 ASS'Y AT 4TH STRINGER DET. REQ'D WITH 28B5425-14 PART REQ'D TO BE 3 PER A/P PORT SIDE OF -2 ASS'Y AT 7TH STRINGER, INCL AT REC	3-19-43	
E	FAYING SURF. FAY WAS C.I.S.	4-7-43	
F	ADDED DETAIL "M" AT 8TH STRINGER	4-22-43	
	WAS 7TH STRINGER, 28B5429-15R (1 REQ) WAS (3 REQ) ADDED -10 (-) NO WT CHG	4-22-43	
G	28B5509 (REF) & 28B5428-14L (REF) (FOR C-91876 PORT SIDE ONLY) AT 3RD STRINGER WAS 4TH STRINGER WT CHG REQ.	4-22-43	
H	REMOVED - 8 FROM - 2 ASSY NO WT CHG	4-22-43	
J	REMOVED - 9 FOR PBY-5 & PBY-5A NO WT CHG	4-22-43	
K	6 1/16 WAS 6 1/16, 29 TO ℄ WAS 29 7/16 TO ℄ NO WT CHG	4-22-43	
L	IN 5/16 - 8 Y-2-A8BT 2 1/16 REQ'D WAS (2) AN 426 AD 11/16 -8 ST 2 REQ'D EXTRU 46A -8-T, -10 T-2-A8BT 11" WAS AD426 11/16 AN 426 AD 8-T. WT CHG REQ.		

PBY-1B	28B5427
28-5 MA	28B5428
28-5 MC	
28-5 MF	
28-5 MV	
28-5 MW	
28-5 ME	
PBY-3	28B5427
PBY-5B	28B6008
PBY-5	28B1007
PBY-5	28B6008
PBY-5	28B1007

NO.	MODEL	PART NO.
B-		28B1007
C 91876		28B6008
C 70596 MF		28B1007

PARTS LIST PER ASSY					
PART No.	STOCK MATERIAL	SPEC	REQ -0	REQ -2	REQ -3	REQ -4
-10	V-2-A8BT 2 1/16					
-11	V-2-A8BT 2 1/16					
28B5425-17L	MAT. NOTED	2P-AD				
28B5425-14	PART NOTED	AN426				
28B5425-15	PART NOTED	AN426				
28B5509	MATERIAL	4130				
AN426AD-4-8	MATERIAL	4130				
AN426AD-4-7	MATERIAL	4130				

MATL	NOTED
HEAT TREAT	
NAME	BELTFRAME - HULL
	STA. ℄ 4.50
CONSOLIDATED AIRCRAFT CORP	
SIZE	J
DWG. NO.	28B5450

H 172

ENG. FILE

NOTE:
FOR PARTS & INFORMATION NOT SHOWN
SEE DRWG 28B-33-550

-12L SAME AS 28B1153-21L-22R EXCEPT LOWER END CUT OFF IN WAY OF FL FRAME
-12R

-13L & -15R START AT THIS POINT

-7L
-7R BEND RADII 1/8

GUIDE PIN HOLE

-6L
-6R BEND RADII 3/16

-11 RH (REF)
-30 LH (REF)

-10L
-10R

JOGGLE .070

SEE DET: D

28B5509
NOTE: DO NOT RIVET 28B5509 UNTIL ASSEMBLY OF 28B4201-560

02155-10-3 (4 REQ'D)

-29R
-29L

SEE DET: E

28B5509

GUIDE PIN HOLE

28B075

-1L REF
-7L REF

SEC: A-A

SEC: B-B

SEC: C-C

HEAT TREAT SP-53

BEND RADII 1/8

NOTE: THIS STRINGER INSTALLED OUTBD. TO THIS POINT & STOPPED HERE

VIEW LOOKING FWD

FULL SIZE

-11 RH (REF)
-30 LH (REF)

28B4201-560 REF

-13 REF

45° APPROX FOR -28

THIS ATTACHMENT FOR PORT SIDE OUTBOARD ONLY
FULL SIZE

DET: D

28B4201-560 REF

28B3503 (REF)

-28 L (REF)

45°

28B075 (REF)

DET: E
SCALE: 6"=1'0"

SYM ABOUT

28B5509

FULL SIZE

NOTE
FOR OUTSIDE CONTOUR SEE 28B003
FOR STRINGER LOCATIONS SEE 28B1007
ALL RIVETS AN442D

+ - RIVETS (SIZE INDICATED AT INTERVALS BY THE FOLLOWING MARKINGS)
⊕ - 1/8 ✦ - 5/32 ✳ - 3/16
⊕ - 1/4 ⊕ - 5/16 ⊕ - 3/8

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
	ADD DETAIL "A" STRIKER (10) ATTACH. (NOT USED ON A/P)						
	ADD DETAIL "B" ATTACHMENT -- OUTBOARD ONLY WAS "THIS ATTACHMENT ---- INBD ONLY" INT. 4 PLCS						
	-11L(R)(C)(S)-A2ST5 7/16 WAS -11L(R)(C)(S)(10)(13)X4.4L EXTR. SPEC 4640-T3 -11L(R)(C)(S)-A2ST5 3/8 WAS -29L(R)(C)(S)(10)(13)X5 AL.AL EXTR. SPEC 4640-T3						
	-11(14) WAS -11(30)L - 38 WAS -11L(1) - WT. CHG. NEG.						

EO 41347

EO B18763

| | | | | | |

SKIN LINE

57½ TO ℄ 20R

53½ TO DECK

7R

FLANGE OF -7 IS TANGENT TO THIS CIRCLE

23½

TANGENT AT FOR-8

AN442D5

15R

28B2828-18 (REF)

AN442-D8

44 TO ℄

SECTION D-D FULL SIZE

-8L REF.

DETAIL-F (FOR 28-5ME) SCALE: 6"=1'0"

4⅞ MAX

NEC. TO HOLD THIS DIM. ON -12R ONLY

-12R

-6L(REF)

FWD

DETAIL-G

-12 -13(REF) -14

FULL SIZE

AN442-D6

DETAIL-E SCALE: 6"=1'0"

FWD

DETAIL-G FOR-0.-2 &-3ASS'YS(EXCEPT 28-5ME) SCALE: 6"=1'0"

SKIN LINE

28B1525-56

7⅞

3⅛

BELT FRAME TOP SPLICE

OMIT RIVETS IN THIS SPACE UNTIL INSTALL. OF FLAP CONTROL PULLEY BRCKTS.

-8REF)

SECTION FULL SIZE

28B5425-11 BOTH SIDES ON-2 &-3 ASS'Y. RH. SIDE ONLY ON-0 ASS'Y

28B5509 (FOR INSTALL SEE DETAIL-F FOR 28-5ME)

(FOR-4ASS'Y)

FOR -3ASS'Y

28B5509(FOR-3ASS'Y) FOR INSTAL SEE DETAIL-E

28B5509 (FOR INSTAL SEE DETAIL-E EXCEPT FOR 28-5ME. SEE DETAIL-F FOR 28-5ME

TWIST FLANGE PARALLEL TO KEEL IN THIS LENGTH

15R

28B5640-9&R (-4ASS'Y) 28B3503 (-0-2 &-3ASS'Y) FOR INSTAL. SEE DETAILS FOR ALL SHIPS EXCEPT 28-5ME. SEE DETAIL-F FOR 28-5ME

SECTION A-A FULL SIZE

SECTION F-F SCALE: 12"=1'0" (-4ASS'Y)

BELT FRAME SYM ABOUT ℄

DETAIL-R (FOR-0.-2 &-3ASS'YS)

SEE DETAIL-E

TANGENT AT F

Q2155-M-8 (-4ASS'Y) Q2155-M-8.5

Q2155-M-6 (-4ASS'Y) Q2155-M-6.5

Q2155-M-8 Q2155-M-8.5 (-4ASS'Y)

Q2155-M-5.5 (-4ASS'Y) Q2155-M-6

Q2155-M-6.5 (-4ASS'Y) Q2155-M-7

Q2155-M-6.5 (-4ASS'Y) Q2155-M-7

Q2155-M-7 (-4ASS'Y) Q2155-M-8

Q2155-M-7.5 (-4ASS'Y) Q2155-M-8

Q2155-14-4 (-4ASS'Y) Q2155-14-4.5

Q2155-14-4 (-4ASS'Y) Q2155-14-4.5

Q2155-14-4.5 (-4ASS'Y) Q2155-14-5

Q2155-14-5 (-4ASS'Y) Q2155-14-5.5

Q2155-14-5.5 (-4ASS'Y) Q2155-14-6

Q2155-14-6 (-4ASS'Y) Q2155-14-6.5

Q2155-14-6.5 (-4ASS'Y) Q2155-14-7

Q2155-14-7 (-4ASS'Y) Q2155-14-7.5

Q2155-14-7.5 (-4ASS'Y) Q2155-14-8

Q2155-14-8 (-4ASS'Y) Q2155-14-8.5

Q2155-14-8.5 (-4ASS'Y) Q2155-14-9

Q2155-14-9 (-4ASS'Y) Q2155-14-9.5

28B7070-2

JOGGLE-.070

AN442-D6

-15(REF)(FOR-3 ASS'Y)

-16L(REF) (FOR-4ASS'Y)

-6L

SECTION N-N SCALE: 12"=1'0" (-3ASS'Y)

28B5620-11

AN442-D6

(FOR-3ASS'Y)

SECTION C-C FULL SIZE

DETAIL-R SCALE: 6"=1'0" (FOR-0.-2 &-3 ASS'YS)

SECTION B-B FULL SIZE

KEEL LINE

28B5620-11(REF)

SECTION-H-H SCALE: 12"=1'0"

VIEW SHOWN — PORT SIDE - LOOKING FORWARD

FOR OUTSIDE CONTOUR SEE 28B003

FOR CONTOUR BEVELS SEE 28B036

FOR STRINGER LOCATIONS SEE 28B100T

H.T. ALL COND.A. MAT. PER SPEC. 3R53

ALL RIVETS AN442D UNLESS OTHERWISE NOTED

FOR DWGS NOT SHOWN SEE 28B1525.

Ⓥ MATERIAL NOTE:- 1-MAT'L. FOR -12VR, -13VR, -14VR MAY BE- ⓐ 24S-T361 +1.0, .08 ⓑ K5401 +1.0, .AL ALLEST1, SPEC. QQ-A-384-T

Conf 28B75 Cont 77723 Cont 70496

Conf 01876 Cont 70496

FINISH

2 ANOOL TREATMENT

P P BY PRIMER

AP ALUMINIZED PRIMER

H 174

NG. FILE

NAME BELT FRAME - HULL STA. ℄ 5.25

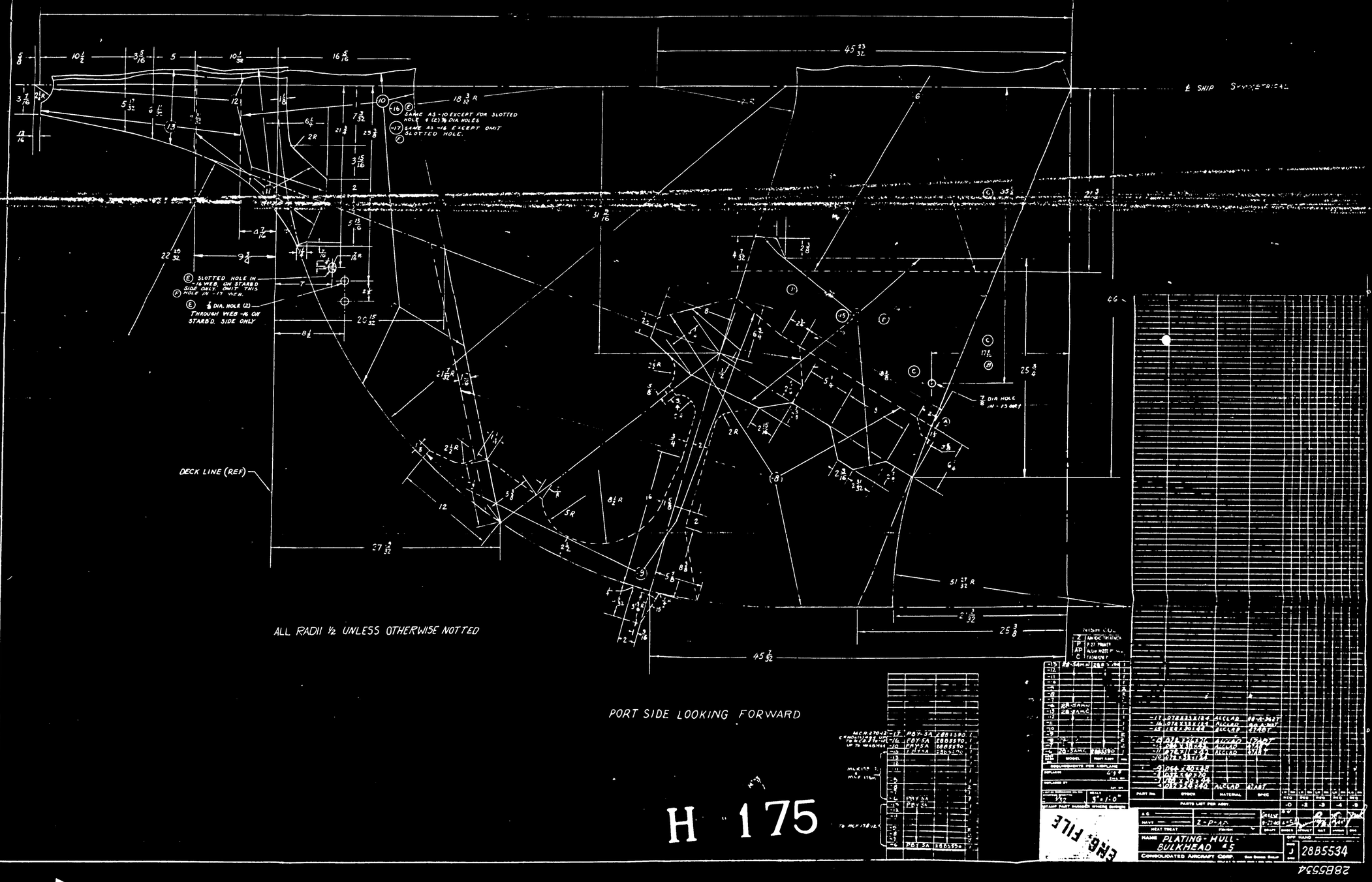
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

DWG NO. 28B5525

SIZE J

R 28B5525

LET	ALTERATION	DATE	BY
A	PER ⑩ AS SHOWN	4-24-42	
B	ADD -14 (NO.) - 6 SAME HOLES ADD 4 VOID HOLES IN -14, REF'D ON -1 IN EFFECTIVE CHG. NO. 6		
C	CALLED -15 SAME AS -7, EXCEPT ADD 4 7/8 DIA HOLE & LOCATING DIMS. PER E 17326		
D	ADD MT. LUG - MCR. 178M-2	9-18-42	
E	CHG. SPACING FROM ⑧ TO ⑨ - MOVED -14 ⑨ TO ⑧ - ADD NEW ⑨ - ADD 4 DIA HOLES - ADD MT. LUG - MCR. 178M-2	9-29-42	
F	ADDED 1 DIA HOLE IN ⑧ & ⑨ - SAME AS ⑩ EXCEPT FOR THE ADDITIONAL HOLE & NO MAT'L SPECIFIED - ADDED FOR STRUCTURAL REQUIREMENTS PER E.O. 1-1-M, E.O. 1-1-R-E. ADDED LOCATIONS FOR ⑧ & ⑨ PER AIRFRAME - MCR. 178M-2	1-11-43	
G	IN LIEU OF -13 & -18 RUN SPLICE IT PART IDENTICAL TO -18 EXCEPT ONE ITEM SLOTTED HOLE FOR -13 IN REV BLOCK ADDED -17, WITH NINETY DEG 270-18 & CHANGED LOCATIONS FOR -18 FROM ⑧ TO ⑨ - ADD NEW ⑧ TO ⑨ - ADD MT. LUG - MCR. 178M-2	1-11-43	



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PART No.	STOCK	MATERIAL	SPEC	-0 REQ	-2 REQ	-3 REQ	-4 REQ	-5 REQ
-17	0.064	2024-T3	AN-QQ-A-250/5					
-16	0.064	2024-T3	AN-QQ-A-250/5					
-15	0.064	2024-T3	AN-QQ-A-250/5					
-14	DIA 3/4	24ST	AN-QQ-A-277					
-13	0.064	24ST	AN-QQ-A-250/5					
-12	0.064	24ST	AN-QQ-A-250/5					
-11	0.064	24ST	AN-QQ-A-250/5					
-10	0.064	24ST	AN-QQ-A-250/5					
-9	0.064	24ST	AN-QQ-A-250/5					
-8	0.064	24ST	AN-QQ-A-250/5					
-7	0.064	24ST	AN-QQ-A-250/5					
-6	0.064	24ST	AN-QQ-A-250/5					
-5	0.064	24ST	AN-QQ-A-250/5					
-4	0.064	24ST	AN-QQ-A-250/5					
-3	0.064	24ST	AN-QQ-A-250/5					
-2	0.064	24ST	AN-QQ-A-250/5					

PARTS LIST PER ASSY.

A.C.		SCALE	1" = 1'-0"
NAVY	Z-P-AC	DRAFT	
HEAT TREAT	FINISH		

NAME: PLATING - HULL - BULKHEAD 45

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

DFT NAME: J 28B5534

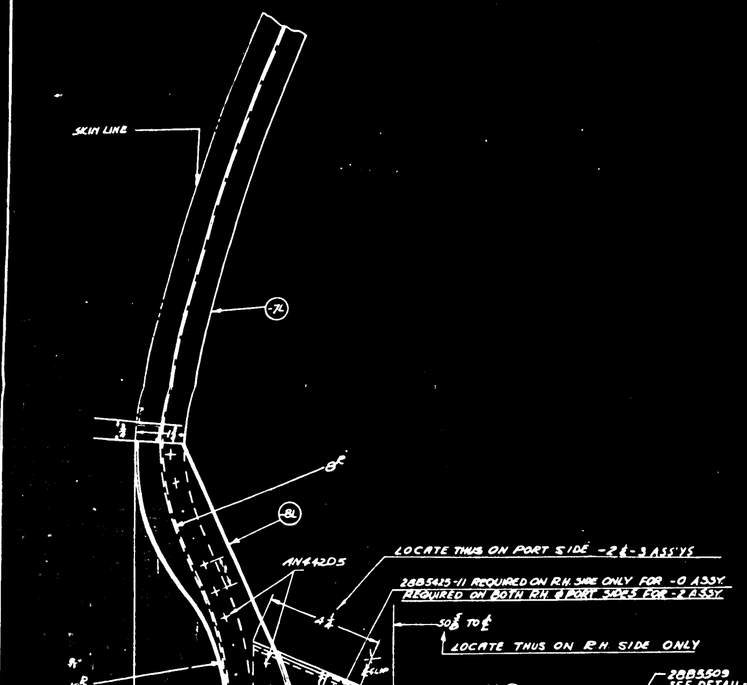
28B5534

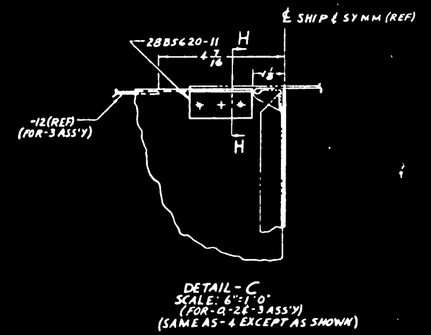
ENG. FILE

LET	ALTERATIONS	DATE	BY
K	ADDED (-4 ASS'Y) REQUIRED		
L	ADDED (-4 ASS'Y) REQUIRED		
M	ADDED (-4 ASS'Y) REQUIRED		
N	ADDED (-4 ASS'Y) REQUIRED		
P	ADDED (-4 ASS'Y) REQUIRED		
	ADDED (-4 ASS'Y) REQUIRED		
	ADDED (-4 ASS'Y) REQUIRED		
	ADDED (-4 ASS'Y) REQUIRED		
	ADDED (-4 ASS'Y) REQUIRED		
	ADDED (-4 ASS'Y) REQUIRED		
	ADDED DETAIL-E (-4 ASS'Y)		
	(NT CHG. NO WT CHG)	5-24-54	
	ADDED (-4 ASS'Y) REQUIRED		
	CHGD -2 ASS'Y TO -3 ASS'Y		
	FOR 28B5509 (NO WT CHG)	6-14-54	
	REVISED (K) WAS AS SHOWN		
	ADDED SECTION D-D FOR -4 ASS'Y		
	(NT CHG. NO WT CHG)	8-11-54	
	IN B/M -8 1/4 WAS "5-2 AN7308"		
	WAS "4 3/4 OR 5 3/4" ST. EXTR.		
	4 REQ'D 10 3/4"		
	WAS "4 3/4 OR 5 3/4" ST. EXTR.		
	4 REQ'D 10 3/4"		
	WAS "5-2 AN7308" 4 REQ'D		
	10 3/4" ST. EXTR.		
	ADD -12 (REF) (FOR -3 ASS'Y)	9-24-54	
	IN B/M FOR -9 1/4 "NOTED" WAS		
	"4 AN7308 6 1/4 FOR 1 EQ'D" NOTED		
	WAS "Y-2-A28T & 10" FOR "ALL"		
	"NOTED" WAS "Y-2-A28T P 10 1/4"		
	TO FACE ADDED MATERIAL "5-2-A"		
	NO WT. CHG.	10-29-54	

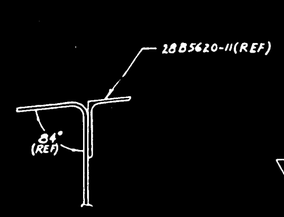
LET	ALTERATIONS	DATE	BY
A	ADDED -4 ASS'Y REQUIRED		
	ADDED -4 ASS'Y REQUIRED		
	ADDED -4 ASS'Y REQUIRED		
	ADDED -4 ASS'Y REQUIRED		
	ADDED -4 ASS'Y REQUIRED		
	ADDED -4 ASS'Y REQUIRED		
B	CHANGED DIMENSION "M" TO "5 1/4"		
	CHANGED "5" TO "5 1/4"		
	ADDED 28B5509 (-4 ASS'Y) TO B/M		
	CHANGED 28B5509 (-3 ASS'Y) TO		
	(-4 ASS'Y) ON (-4 ASS'Y) TO		
	(-3 ASS'Y) ON (-4 ASS'Y)		
C	ADDED 28B5525-9L TO B/M		
D	ADDED CLIP-BOND TO 28B5525-9L		
E	(-4 REQ'D TO -3)		
F	ADDED 28B5509 (-3) TO 28B5525-11		
	AND (-4) 28B5509-10		
	(1 REQ'D TO -3)		
G	ADDED (-3 ASS'Y) FOR 28-SHT		
	28B0070-2 (-3) TO 28B070		
	(1 PER E.O. 33778)		
H	ADDED (-3 ASS'Y) FOR 28-SHT		
	ASSY. ADDED TO B/M		
	28B5509-11 ADDED TO ASSY		
	BLOCK FOR (-3 ASS'Y) ONLY		
	AN960-10D WASHERS ADDED		
I	CREATED -3 ASS'Y FOR 28 SHT.		
	PREVIOUS (-2 ASS'Y) CREATED		
	FOR 28-SHT. ASSY. FOR 28 SHT.		
	CONVERTED (-2 ASS'Y) TO (-3 ASS'Y)		
	FOR -3 ASS'Y. ROLLED SECTION		
	REVISED AN960-10D WASHERS ADDED		
	DETAILS A, B, C, D, E ADDED		
	(SECT. A-A, CUT CRS. VIEW)		
	FOR -3 (-4 ASS'Y'S) ADDED 12		
	28B2109 (-3) -4 LG (REF)		
	REF. N-N (NT CHG P. 23)		

E.O. 33694
E.O. 34263

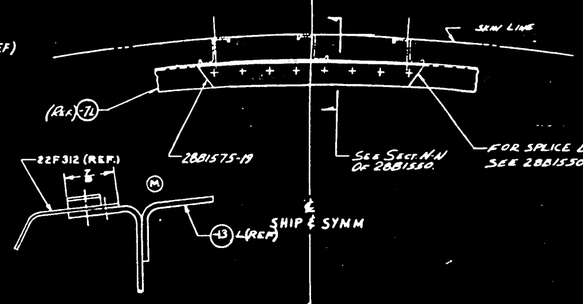




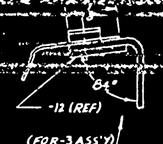
DETAIL-C
SCALE: 6"=1'0"
(FOR-0, -2 & -3 ASS'YS)
(SAME AS -4 EXCEPT AS SHOWN)

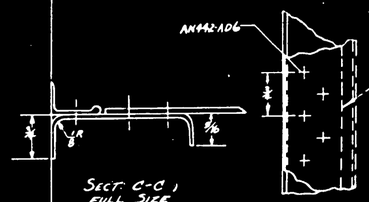


SECTION: H-H
SCALE: 12"=1'0"



SECTION D-D (FOR -4 ASS'Y)
SCALE: 12"=1'0"



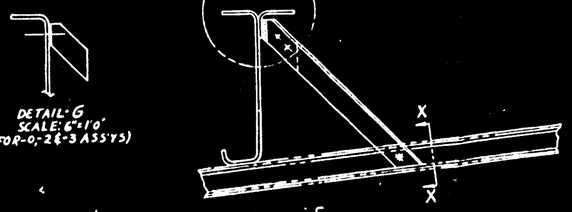


SECT. C-C
FULL SIZE

SECTION: N-N
SCALE: 12"=1'0"
(FOR-3 ASS'Y)

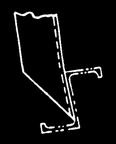
VIEW SHOWN — PORT SIDE
LOOKING FORWARD

SECTION: B-B
SCALE: 12"=1'0"



DETAIL-G
SCALE: 6"=1'0"
(FOR-0, -2 & -3 ASS'YS)

DETAIL-E
SCALE: 6"=1'0"



SECTION: X-X
SCALE: 12"=1'0"

NOTES- FOR OUTSIDE CONTOUR SEE 28B003.
FOR CONTOUR BEVELS SEE 28B036.
FOR STRINGER LOCATIONS SEE 28B1007.
FOR DIMENSION NOT SHOWN SEE 28B1575.

SEE CORRESPONDING DETAILS OF 28B5525.
H.T. ALL COND A MAT. PER SPEC. SR-53.
ALL RIVETS AN 442D EXCEPT IF OTHERWISE SPECIFIED

MATERIAL NOTES Ⓟ
1- MAT'L FOR -9¼ MAY BE:
(A) Y-2-A28T & 8¼, OR
(B) K-S40T & 8¼, AL AL EXTR., SPEC QQ-A-354-T.
2- MAT'L FOR -10¼ MAY BE:
(A) Y-2-A28T A 10, OR
(B) K-S40T A 10, AL AL EXTR., SPEC QQ-A-354-T
3- MAT'L FOR -11¼ MAY BE:
(A) Y-2-A28T A 10 3/4, OR
(B) K-S40T A 10¾, AL AL EXTR., SPEC QQ-A-354-T

SHIPS #295 ON

FINISH
P- P-27 PRIMER
AP- ALUMINIZED PRIMER

FINISH CODE
A
B
A1

H 176

| | | |

H-177

LET	ALTERATION	DATE	BY
S	PHOTO TRACED	6-11-42	
T	IN RIM FOR -21 1/2 R, FOR R/R 12 FOOT R/R, ADD 1.1 SHIM WITH "V-5-A132" RIVET (INCL FOR INFO)	7-15-42	
U	IN SECS F-22 WAS -31, -32 WAS -22R - 23 WAS -23L ✓ -33 WAS -23R NOTE "FOR TRIM -33 ONLY" ADD NOTE "NOTE 4" TO RIM	8-14-42	EO
V	IN RIM FOR -21 1/2 REPLACED "V-5-A132" WITH "NOTE 5" (ADDED "NOTE 5" TO ALL TO FACE OF DWG ABOVE) NOTE "1" NO WITCHING IS STAKE	9-16-42	EO

DETAIL -24
SCALE 12"=1'0"

DETAIL -31

OUTLINE -7
SCALE 3"=1'0"

OUTLINE -6L
FOR CUTOUTS & BEADS
SEE A32E-31-2
SCALE 3"=1'0"

CONTOUR
SEE 28B003

JOGGLE
TO SUIT
KEELSON

AUX SPAR

28B5502 (REF)

AN4-6A (12 REQ)
Q 7008-AL 17-064
AC 365-428

SEE DETAIL

SECTION H-H

SECTION G-G

28B4171 (REF)

DETAIL -25
SCALE 12"=1'0"

DETAIL -29

AN4-12A (6 REQ)
AC 365-428

1/16 x 2 3/8 x 7 NEOPRENE
2 REQ BETWEEN
FITTING & ADJACENT
DURAL PARTS

Q 4305-A04

20 REQ - ONE EACH
ON 28B3582-11R
& 12R

28B5502 (REF)

SECTION B-B
SCALE 12"=1'0"

1/16 x 1 1/2 x 8 1/2 NEOPRENE
BETWEEN FITTING
& ADJACENT DURAL
PARTS

JIG DRILL 1/4"
(8 PLACES EQUALLY SPACED)

Q2155-14-6

Q2155-14-7

Q2155-16-8

1/16 x 3 3/8 x 5 1/2 NEOPRENE
BETWEEN FITTING &
ADJACENT DURAL PARTS

AN442-DB (5)

AN442-D4 (6)

Q2155-19-8

Q4305-A04

LOCATE ON ART FACE
OF R.H. SIDE OF B.F.

SEE DETAIL

TYPICAL STRINGER
CUTOUT FOR LOCATION
SEE E6B1007.

AN4-10A (13 REQ)
AC 365-428

3 SPACES @ 3"

SEE DETAIL

MATERIAL NOTES
1. MATL FOR -21 1/2 MAY BE
(a) V-5-A12T-10, OR
(b) K30009-10, AL AL EXTD. SPEC QQ-A-354 T

SECTION A-A

SECTION C-C

SECTION D-D
SCALE 12"=1'0"

SECTION E-E

SECTION F-F
SCALE 12"=1'0"

TRIM -22, -23, -32, -33

KEEL TRUSS REF

TYPICAL FOR
-23 & -29

DETAIL -25 & -29

28B6008-8
(REF)

SECTION K-K

AN442 D6
4 REQD

NOTE:
ALL RIVETS AN442-D
INSULATE ALL BOLTS WITH Q 7108
WASHERS EXCEPT AS NOTED

+ = RIVETS	(SIZE INDICATED AT INTERSECTIONS BY THE FOLLOWING MARKINGS)		
+ - 1/8	+ - 3/32	+ - 5/16	
+ - 1/4	+ - 5/16	+ - 3/8	

ENG. FILE

A.C.							
NAVY SR-53T	Z-M-AP						
HEAT TREAT	FINISH						
NAME	BELT FRAME-HULL STA 42						
CONSOLIDATED AIRCRAFT CORP.		SIZE J	DWG NO 28B5582				

DETAIL J
FULL SIZE

VIEW G-G
FULL SIZE

DETAIL H

SECT. F-F
FULL SIZE

SECT. K-K

SECT. GG

SECT. A-A
FULL SIZE

SECT B-B
FULL SIZE

SECT. C-C
FULL SIZE

SECT. E-E
FULL SIZE

VIEW LOOKING FORWARD

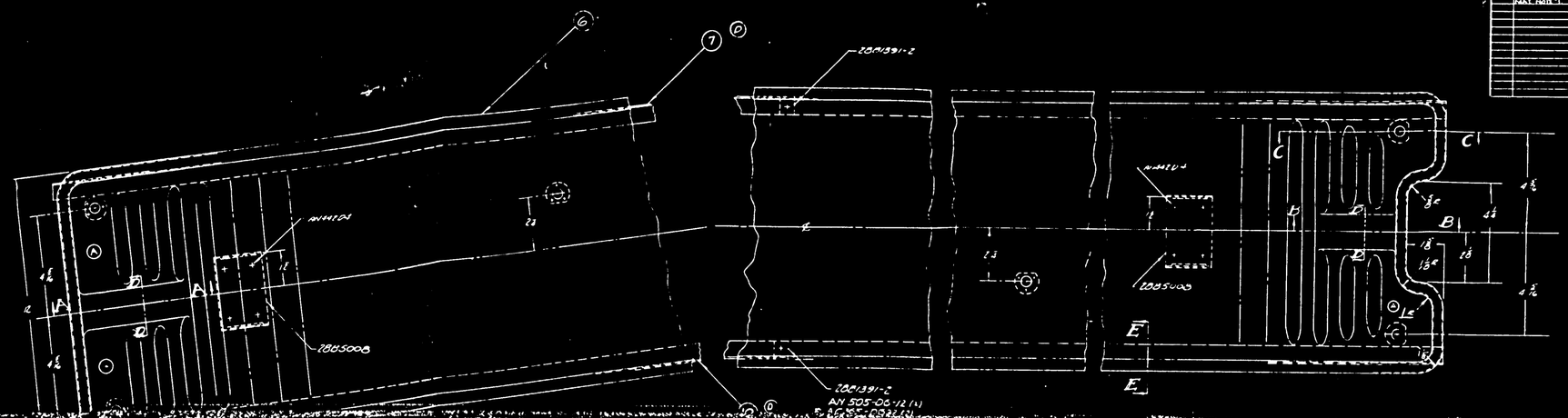
NOTE
BOLT SYMBOL CONTD ABV. SEE 28B008
FOR STRUCT. LOCATIONS SEE 28B100
ALL RIVETS AN442

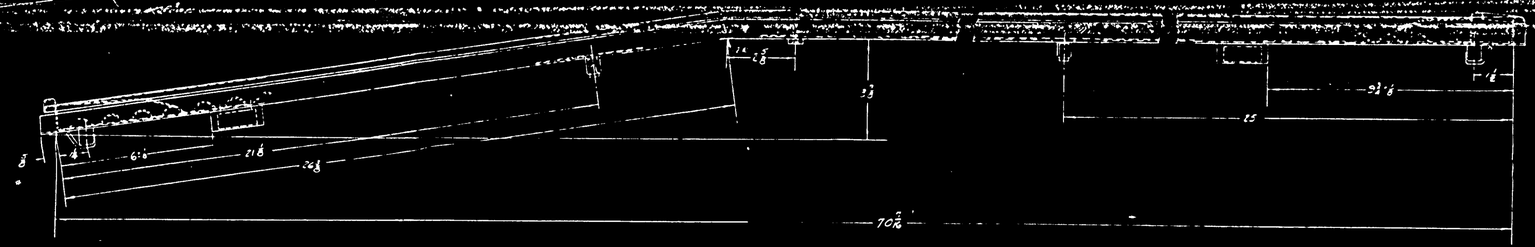
ALT	ALTERATION	DATE	BY
	28555		
	30711		
	E.O. 345 CR 4		

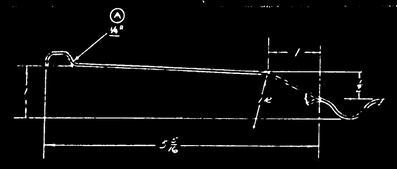
LET	ALTERATION	DATE	BY
A	REVISED END BEADS - 1¼ WAS 1		
B	ADDED 3 RIVETS AT 7¼ WAS 6	6-44	DARLING
C	ADDED 2 RIVETS AT 7¼	8-44	DARLING
D	ADDED 2 RIVETS AT 7¼	10-44	WILLIAMS
E	ADDED 2 RIVETS AT 7¼	12-44	WILLIAMS
F	ADDED 2 RIVETS AT 7¼	2-45	WILLIAMS

LET	ALTERATION	DATE	BY
A	ADDED NOTE 3	3-45	WILLIAMS
B	ADDED NOTE 4	4-45	WILLIAMS
C	ADDED NOTE 5	5-45	WILLIAMS
D	ADDED NOTE 6	6-45	WILLIAMS
E	ADDED NOTE 7	7-45	WILLIAMS
F	ADDED NOTE 8	8-45	WILLIAMS

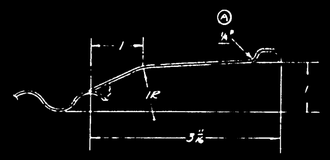
F.O. 7620
E.O. 38195
E.O. 36237 PRT-3A
PRT 3A (E.O. 36237A)
PRT 3A (E.O. 36237A)
E.O. 6832
DWG
E.O. 38034



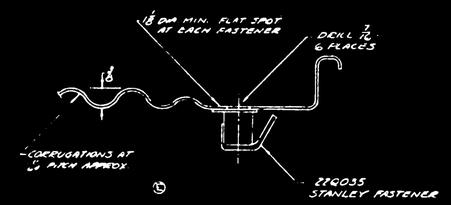




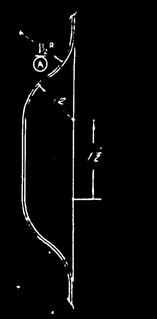
SECTION A-A
12"=1'-0"



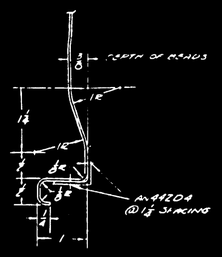
SECTION B-B
12"=1'-0"



SECTION C-C
12"=1'-0"



SECTION D-D
12"=1'-0"



SECTION E-E
12"=1'-0"

(E) NOTE:
ANCHOR NUTS & STANLEY FASTENERS ARE TO BE FINISHED AS PER SPEC. ZF-28-008 " 10E.28. SPEC. ZF-28-006 " 10E.28; ANCHOR NUTS (STEEL) & STANLY FASTNERS APPLY 1 BRUSH COAT OF ZINC CHROMATE PRIMER TO THE CONTACTING SURFACES OF THE NUT OR FASTNER. APPLY 2 COATS OF PRIMER TO THE SUPPORTING SURFACE. ASSEMBLE WITH ZINC CHROMATE PASTE IN THE JOINT SUCH THAT EXCESS MATERIAL IS SQUEEZED OUT AT ALL BOUNDRIES. REMOVE THE EXCESS MATERIAL IN SUCH A MANNER AS TO FORM A FILLET.

(D) MATERIAL NOTES
1 - MAT'L FOR -T4 -10 MAY BE:
(A) ½ A2S-T-1/2, DR.
(B) K5401-T72, AL AL EXTR., SPEC QQ-A-354-T

FINISH
F ANODIC TREATMENT
P #27 PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE

AN 509-10			
AS 133-3			
AN 960-10-L			
WASHER			
AN 935-10			
RIVET	STANLEY MFG. CO.		
PART NO.	STOCK	MATERIAL	SPEC

BY	NOTED	NOTED	NOTED	NOTED	NOTED	NOTED
	NOTED	NOTED	NOTED	NOTED	NOTED	NOTED
	3/22/45	3-7-45	3-7-45	3-7-45	3-7-45	3-7-45

REQ'D	REQ'D	REQ'D	REQ'D	REQ'D	REQ'D
-0	-2	-3	-4	-5	

A.C.							
NAVY SPEC 3582 HEAT TREAT		Z-F-AP FINISH					
NAME	FLOOR - HULL - WALKWAY STA # 40-50					DWG NO.	J 2885597

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

ENG. FILE

H 179

A
AIRPLANE ℄ SYMMETRY
(REF)
SECTION A-A
AN426-D3
NAS2-D3
99°
NOTE
USE OF "AD" TYPE RIVETS
IS OPTIONAL
H 180
APPROVED FOR
TOOLING BY
* SPOTWELDING SYMBOL
THIS SYMBOL INDICATES SPOTWELDING
RIVETS ARE NOT INDICATED ON THIS
DRAWING BY SYMBOLS.
NONE
PANEL ASSEMBLY-BOMBER'S
WINDOW SHUTTER HOUSING OUTER
28B5805

H 181

COPY NO. 2

LET	ALTERATION	DATE	BY
M	TRACED & REDRAWN CREATED SHEET 2 FOR DETAIL #'S -4 -5 -6 -7 — NO WT. CHG.		

B (12-11/16 OF PULLEY CUT) — & SHIP

AN442-D5 12 PLACES

-6 (2)

-5

-7

-8

VIEW A-A

FORWARD

DRILL 2 HOLES THRU BLKHD

AN960D8-14
AN960D8-PL
BRACKET

AN442-D5 SPACE APPR 7

SEE DETAIL B FOR PULLEY CUTOUT

AN442-D5

20CO84 RIVET LOCATIONS TO BE TAKEN FROM BRACKET

AN442-D5
7 RIVETS EQUAL SPACING ON 2.552

AN24-19
AN320-4
AN960-416

-4

AN442-D5

20CO87-1

-2

-3

4 PLACES

AN442-D5
4 PLACES

INSTALL 28C1125-1 R.H. OPPOSITE
SHIM IF NECESSARY

TO ℄ OF SHIP

SHIP
INSTALLATION SYMMETRICAL ABOUT ℄ EXCEPT AS NOTED.
VIEW LOOKING FORWARD

C-91878 SH 2
C-91878 SH 1 TO 2

C-7047

NOTES:
1. FINISH -2, -3, -4, -5 & -7 ZP-2GR
2. HEAT TREAT -7 SPOT
3. SEE SHEET 1 FOR DETAILS -2, -3, -4, -5, -6, -7 & -8

FINISH CODE	
A	CAD PLATE
B	CHROMATE
C	ANODIZE

H 182

ENG. FILE

PART NO.	STOCK	MATERIAL	SPEC.
PARTS LIST			
LET	NOTED	NOTED	
HEAT TREAT		ALT'S IN	

INSTALLATION-AILERON PULLEY BRKT.-BLKHD #5

CAGE NONE

28C1015

SHEET 1 OF 2

AN442-D5
AN442-D6

SEE END VIEW STA 856

12R HOLES

DETAIL -4

TRIM CORNER TO CLEAR STRINGER

SCALE 6"=1'

DETAIL -6

AN210-1A PULLEYS

AN210-1A PULLEYS ON PBY-1 ONLY

CUT OUT 4 FOR CLEAR CABLE

(REF)

LOCATE ON ASS'Y

(REF)

AN442-D8

UP ELEVATOR

DRILL THRU AN302-21 COUNTERSUNK FLAT HD PIN AN380-2-2 COTTER PIN

THRU 26-3 AN24-16 CLEVIS BOLT AN320-4 NUT AN380-2-2 COTTER PIN AN960-416 WASHER

AN442-D8 DRILL 2 INCH RADIUS IN 4 OF ELEVATOR RIBS ONLY AS REQ'D

LH PULLEY

RH PULLEY

(7) BRACKET ASSEMBLY

STA 866

AFT

SHIP

SEE END VIEW STA 856

12R HOLES

DETAIL -5

DETAIL -3

STM

H 183

-5	BY-5	AMC	28C1050	1	
-5	PBY-5	PBY	28C1051	1	
-5	PBY-5A	NAV	28C1052	1	
-5	PBY-5B	NAV	28C1053	1	
-5	PBY-5A	NAV	28C1054	1	
-5	PBY-5B	NAV	28C1055	1	
-5	PBY-5	RNAF	28C1056	1	
-5	PBY-5	AMC	28C1057	1	
-5	PBY-5A	AMC	28C1058	1	
-5	PBY-5A	RNAF	28C1059	1	
-5	PBY-5A	NAV	28C1060	1	
-5	PBY-5B	NAV	28C1061	1	
-5	PBY-5B	AMC	28C1062	1	
-5	PBY-5B	RNAF	28C1063	1	
-5	PBY-5A	RNAF	28C1064	1	
-5	PBY-5A	AMC	28C1065	1	
-5	PBY-5	RNAF	28C1066	1	
-5	PBY-5	AMC	28C1067	1	
-5	PBY-5A	AMC	28C1068	1	
-5	PBY-5A	RNAF	28C1069	1	
-5	PBY-5A	NAV	28C1070	1	
-5	PBY-5B	NAV	28C1071	1	
-5	PBY-5B	AMC	28C1072	1	
-5	PBY-5B	RNAF	28C1073	1	
-5	PBY-5A	RNAF	28C1074	1	
-5	PBY-5A	AMC	28C1075	1	
-5	PBY-5	RNAF	28C1076	1	
-5	PBY-5	AMC	28C1077	1	
-5	PBY-5A	AMC	28C1078	1	
-5	PBY-5A	RNAF	28C1079	1	
-5	PBY-5A	NAV	28C1080	1	
-5	PBY-5B	NAV	28C1081	1	
-5	PBY-5B	AMC	28C1082	1	
-5	PBY-5B	RNAF	28C1083	1	
-5	PBY-5A	RNAF	28C1084	1	
-5	PBY-5A	AMC	28C1085	1	
-5	PBY-5	RNAF	28C1086	1	
-5	PBY-5	AMC	28C1087	1	
-5	PBY-5A	AMC	28C1088	1	
-5	PBY-5A	RNAF	28C1089	1	
-5	PBY-5A	NAV	28C1090	1	
-5	PBY-5B	NAV	28C1091	1	
-5	PBY-5B	AMC	28C1092	1	
-5	PBY-5B	RNAF	28C1093	1	
-5	PBY-5A	RNAF	28C1094	1	
-5	PBY-5A	AMC	28C1095	1	
-5	PBY-5	RNAF	28C1096	1	
-5	PBY-5	AMC	28C1097	1	
-5	PBY-5A	AMC	28C1098	1	
-5	PBY-5A	RNAF	28C1099	1	
-5	PBY-5A	NAV	28C1100	1	
-5	PBY-5B	NAV	28C1101	1	
-5	PBY-5B	AMC	28C1102	1	
-5	PBY-5B	RNAF	28C1103	1	
-5	PBY-5A	RNAF	28C1104	1	
-5	PBY-5A	AMC	28C1105	1	
-5	PBY-5	RNAF	28C1106	1	
-5	PBY-5	AMC	28C1107	1	
-5	PBY-5A	AMC	28C1108	1	
-5	PBY-5A	RNAF	28C1109	1	
-5	PBY-5A	NAV	28C1110	1	
-5	PBY-5B	NAV	28C1111	1	
-5	PBY-5B	AMC	28C1112	1	
-5	PBY-5B	RNAF	28C1113	1	
-5	PBY-5A	RNAF	28C1114	1	
-5	PBY-5A	AMC	28C1115	1	
-5	PBY-5	RNAF	28C1116	1	
-5	PBY-5	AMC	28C1117	1	
-5	PBY-5A	AMC	28C1118	1	
-5	PBY-5A	RNAF	28C1119	1	
-5	PBY-5A	NAV	28C1120	1	
-5	PBY-5B	NAV	28C1121	1	
-5	PBY-5B	AMC	28C1122	1	
-5	PBY-5B	RNAF	28C1123	1	
-5	PBY-5A	RNAF	28C1124	1	
-5	PBY-5A	AMC	28C1125	1	
-5	PBY-5	RNAF	28C1126	1	
-5	PBY-5	AMC	28C1127	1	
-5	PBY-5A	AMC	28C1128	1	
-5	PBY-5A	RNAF	28C1129	1	
-5	PBY-5A	NAV	28C1130	1	
-5	PBY-5B	NAV	28C1131	1	
-5	PBY-5B	AMC	28C1132	1	
-5	PBY-5B	RNAF	28C1133	1	
-5	PBY-5A	RNAF	28C1134	1	
-5	PBY-5A	AMC	28C1135	1	
-5	PBY-5	RNAF	28C1136	1	
-5	PBY-5	AMC	28C1137	1	
-5	PBY-5A	AMC	28C1138	1	
-5	PBY-5A	RNAF	28C1139	1	
-5	PBY-5A	NAV	28C1140	1	
-5	PBY-5B	NAV	28C1141	1	
-5	PBY-5B	AMC	28C1142	1	
-5	PBY-5B	RNAF	28C1143	1	
-5	PBY-5A	RNAF	28C1144	1	
-5	PBY-5A	AMC	28C1145	1	
-5	PBY-5	RNAF	28C1146	1	
-5	PBY-5	AMC	28C1147	1	
-5	PBY-5A	AMC	28C1148	1	
-5	PBY-5A	RNAF	28C1149	1	
-5	PBY-5A	NAV	28C1150	1	
-5	PBY-5B	NAV	28C1151	1	
-5	PBY-5B	AMC	28C1152	1	
-5	PBY-5B	RNAF	28C1153	1	
-5	PBY-5A	RNAF	28C1154	1	
-5	PBY-5A	AMC	28C1155	1	
-5	PBY-5	RNAF	28C1156	1	
-5	PBY-5	AMC	28C1157	1	
-5	PBY-5A	AMC	28C1158	1	
-5	PBY-5A	RNAF	28C1159	1	
-5	PBY-5A	NAV	28C1160	1	
-5	PBY-5B	NAV	28C1161	1	
-5	PBY-5B	AMC	28C1162	1	
-5	PBY-5B	RNAF	28C1163	1	
-5	PBY-5A	RNAF	28C1164	1	
-5	PBY-5A	AMC	28C1165	1	
-5	PBY-5	RNAF	28C1166	1	
-5	PBY-5	AMC	28C1167	1	
-5	PBY-5A	AMC	28C1168	1	
-5	PBY-5A	RNAF	28C1169	1	
-5	PBY-5A	NAV	28C1170	1	
-5	PBY-5B	NAV	28C1171	1	
-5	PBY-5B	AMC	28C1172	1	
-5	PBY-5B	RNAF	28C1173	1	
-5	PBY-5A	RNAF	28C1174	1	
-5	PBY-5A	AMC	28C1175	1	
-5	PBY-5	RNAF	28C1176	1	
-5	PBY-5	AMC	28C1177	1	
-5	PBY-5A	AMC	28C1178	1	
-5	PBY-5A	RNAF	28C1179	1	
-5	PBY-5A	NAV	28C1180	1	
-5	PBY-5B	NAV	28C1181	1	
-5	PBY-5B	AMC	28C1182	1	
-5	PBY-5B	RNAF	28C1183	1	
-5	PBY-5A	RNAF	28C1184	1	
-5	PBY-5A	AMC	28C1185	1	
-5	PBY-5	RNAF	28C1186	1	
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-5	PBY-5B	AMC	28C1192	1	
-5	PBY-5B	RNAF	28C1193	1	
-5	PBY-5A	RNAF	28C1194	1	
-5	PBY-5A	AMC	28C1195	1	
-5	PBY-5	RNAF	28C1196	1	
-5	PBY-5	AMC	28C1197	1	
-5	PBY-5A	AMC	28C1198	1	
-5	PBY-5A	RNAF	28C1199	1	
-5	PBY-5A	NAV	28C1200	1	
-5	PBY-5B	NAV	28C1201	1	
-5	PBY-5B	AMC	28C1202	1	
-5	PBY-5B	RNAF	28C1203	1	
-5	PBY-5A	RNAF	28C1204	1	
-5	PBY-5A	AMC	28C1205	1	
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-5	PBY-5	AMC	28C1227	1	
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-5	PBY-5A	AMC	28C1418	1	
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-5	PBY-5A	NAV	28C1420	1	
-5	PBY-5B	NAV	28C1421	1	
-5	PBY-5B	AMC	28C1422	1	
-5	PBY-5B	RNAF	28C1423	1	
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-5	PBY-5	RNAF	28C1426	1	
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-5	PBY-5A	NAV	28C1430	1	
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-5	PBY-5B	RNAF	28C1483	1	
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-5	PBY-5	RNAF	28C1496	1	
-5	PBY-5	AMC	28C1497	1	
-5	PBY-5A	AMC	28C1498	1	
-5	PBY-5A	RNAF	28C1499	1	
-5	PBY-5A	NAV	28C1500	1	

MODEL	NEXT ASSY	NO.
REQUIREMENTS PER AIRPLANE		
SPECIFICATION	DATE	
CAA SC-22-38	1-68	
RELEASED BY	APP BY	
SCALE	12-1-0"	
STAMP PART NUMBER WHERE SHOWN		

ENG. FILE

PART No.	STOCK	MATERIAL	SPEC	REQ'D	REQ'D	REQ'D
PARTS LIST PER A						

A.C.			WEIGHT		GROUP
NAVY NONE	Z-1	2GP			
HEAT TREAT		FINISH			

MAJOR INSTALLATION-CONTROL CABLE PULLEYS-STA 866

28C1085

-5 PBY-5, PBY-5A, ALLIED, GAMEY
-5A PBY-5A, ARCLA2, HEATH
-5B PBY-5B, ARCLA2, HEATH
-7 SUB-INSTALLATION

AN442-D8
AN442-D5
AN960-416
AN525-4
AN392-4
AN924-6
AN4-24A

AN442-D8
AN442-D5
AN960-416
AN525-4
AN392-4
AN924-6
AN4-24A
AN210-1A

8543

DETAIL OF INST. OF AILERON TAB CONTROL BOX ON ASS'Y. 28C2015-50
NOTE-DETAILS NOT SHOWN. SAME AS FOR -30 & -40 ASSY.

DETAIL OF INST. OF AILERON TAB CONTROL BOX ON ASS'Y. 28C2015-30 & -40

DETAIL OF INST. OF AILERON TAB CONTROL BOX ON 28C2015

VIEW A-A

VIEW LOOKING FORWARD

MATERIAL NOTES-

1-MATL. FOR -6 MAY BE-
(A) Y-37-A8T X 7/8 OR
(B) K3048 X 7/8 ALCLAD

2-MATL. FOR -7 MAY BE-
(A) Y-37-A8T X 7/8 OR
(B) K3048 X 6 1/2 ALCLAD

3- MATL. FOR -21 MAY BE-
(A) Y-2-A11T X 13/16 OR
(B) K2401 X 13/16 ALCLAD

4- MATL. FOR -4 MAY BE-
(A) Y-2-A11T X 13/16 OR
(B) K2401 X 13/16 ALCLAD

5- MATL. FOR -5 MAY BE-
(A) Y-2-A28T X 1 1/16 OR
(B) K2401 X 1 1/16 ALCLAD

E.O. 11927
E.O. 11747
E.O. 34239

END FILE

H 184

LET	ALTERATION	DATE	BY
Q	TRACED NO WT. CHG		
R	IN DETAIL -6 SUB ASSY, -10 R. SUB ASS WAS -10L3A. IN P/N FOR -6 L&R SUB ASSYS. -10L3A (1) FOR -6R WAS (1) FOR -6L & -10R SA (1) FOR -6L WAS (1) FOR -6R. NO WT. CHG		

AN210-3A
AN24-18
AN310-4
AN380-C2-2
07102-A416 (2 REQ)

AN442-D4 (6 PLACES)

STRINGER #3 (REF)

AN442-D4

ELEV DOWN CABLE

STRINGER #4 (REF)

RUDDER CABLE

AN210-3A
AN74-11
07102-A416 (1)
AC595-C42-6
LOCK TO AC501 SCREW
AN960-A416

"TRIM OFF END OF BRACKET AS SHOWN AFTER INSTALLATION

℄ SHIP

VIEW **A-A**
BRKT INSTALL AT STA "7.75

Q808-D4-16 SPACER
AN442-D4

5/8 FLANGES

1/2 x 7/8 SLOT 3 PLACES

123 HOLE
AC501-A0-6
AC365-1032
07102-AL10 (2)
(IN -12L ONLY)

DETAIL **-6L SUB-ASSY.**
-6R OPPOSITE
ALL RIVETS AN442-D4
SLOT BOTH SIDES AS SHOWN

AN210-3A
AN24-18
AN310-4
AN380C2-2
07102-A416 (2 REQ)

AN442-D4
5 EQUAL SPACES

STRINGER #3 (REF)

AN442-D4

STRINGER #4 (REF)

CABLE ELEV UP

TRIM OFF EDGE OF BRACKET AS SHOWN AFTER INST.

VIEW **B B**
BRKT INSTALL AT BLKG "80

5/8 FLANGES

Q808-D4-16
AN442-D4

AN442-D4 SPACED APPROX. AS SHOWN

DETAIL **-7L SUB-ASSY**
-7R OPPOSITE

DECK LINE

SUB-ASSY SEE DETAIL

EL. UP

EL. DOWN

RUDDER

SUB ASSY SEE DETAIL

℄ STA "7.75

℄ BLKG "80

VIEW OF PORT SIDE LOOKING INBOARD

FINISH CODE	
T	ANODIC TREATMENT
D	2-21 PRIMER
AD	ALUMINIZED ENAMEL
C	CADMIUM PLATE
GD	GREEN PRIMER

DETAIL **-9L**
-9R OPPOSITE

.128 DIA HOLE

DRILL & REAM .250

DETAIL **-10L SUB-ASSY.**
-10R OPPOSITE

.128 DIA HOLE

.257 DIA HOLE

AC366-F428
07103-F2

AN425-D3

DETAIL **-14L**
-14R OPPOSITE

.128 DIA HOLE

DRILL & REAM .250

NOTE:
1. HEAT TREAT ALL AL ALL. 24 SO COND "A" PARTS TO NAVY SPEC SR-53.
2. ALL BEND RADII 1/8

PART No.	STOCK	MATERIAL	SPEC	QTY PER ASSY -0	-2	-3	-4	-5
07103-F2				1	1			
AC366-F428				1	1			
AN425-D3				1	1			
-11R	.032 x 2 3/4 x 5 3/8	AL ALL	SH 00 A	355 A	1	1			
-11L	.032 x 2 3/4 x 5 3/8	AL ALL	SH 00 A	355 A	1	1			
-10	SUB ASSY				1	1			
0808-D4-16					1	1			
AN442-D4					1	1			
-14R	.071 x 2 3/4 x 5 3/8	AL ALL	SH 00 A	355 A	1	1			
-14L	.071 x 2 3/4 x 5 3/8	AL ALL	SH 00 A	355 A	1	1			
-12R	.071 x 3 1/4 x 6 3/8	AL ALL	SH 00 A	355 A	1	1			
-12L	.071 x 3 1/4 x 6 3/8	AL ALL	SH 00 A	355 A	1	1			
-10R	SUB ASSY				1	1			
-10L	SUB ASSY				1	1			
-9L	.071 x 2 3/4 x 5 3/8	AL ALL	SH 00 A	355 A	1	1			
-9R	.071 x 2 3/4 x 5 3/8	AL ALL	SH 00 A	355 A	1	1			
-6 L&R	SUB ASSY				1	1			
07102-A416					2	2			
AC501-A0-6					2	2			
AC365-1032

TYPICAL BOTH ENDS.

(-60 ASS'Y ONLY)

TYPICAL CROSS-SECTION FOR -11 & -12

(-60 ASS'Y ONLY)

DETAIL E
SCALE 12" = 1'-0"

INBOARD

DETAIL C
SCALE 12" = 1'-0"

DETAIL D
12" = 1'-0"

DETAIL E
SLIDE PLATE SUPPORT
VIEW LOOKING OUT - PORT SIDE

PLAN VIEW

SEE DETAIL A

SEE DETAIL D

SEE DETAIL B

SEE DETAIL C

FORWARD

PROJECTED SIDE VIEW
LOOKING OUTBOARD

DETAIL B
SLIDE PLATE SUPPORT
VIEW LOOKING AFT - PORT SIDE
SCALE 6" = 1'-0"

DETAIL A
SCALE 6" = 1'-0"

NOTE:
ADD SHIMS WHERE NECESSARY AND OF THICKNESS REQUIRED TO LINE UP UNIT CORRECTLY WITH BELLCRANK BRACKETS ON BULKHEAD #3 & #4

NOTE:
GOVT. FURNISHED FOR (PBY-5A(ALL), PBY-5B (ALL) AND PBY-5A(ALL) AIRPLANES OF CONT. #88476 SEE SHT. 1 B (-16)

FINISH -2, -3, -4, -5, -6, -15, & -16
Z-P-2 AKV BEFORE ASS'Y.
TRIM ALL OUTSTANDING FLANGES 45°

MATERIAL NOTES-

1- MAT'L FOR -2 MAY BE-
(A) Y-6-A6T X 10 3/8, OR
(B) 10676 X 10 1/2, AL AL EXTR., SPEC QQ-A-354-T

2- MAT'L FOR -3 MAY BE-
(A) Y-2-A2BT X 6 1/2, OR
(B) K5401 X 6 1/2, AL AL EXTR., SPEC QQ-A-354-T

3- MAT'L FOR -4 MAY BE-
(A) Y-2-A2BT X 6 1/8, OR
(B) K5401 X 6 1/8, AL AL EXTR., SPEC. QQ-A-354-T

4- MAT'L FOR -5 MAY BE-
(A) Y-2-A2BT X 7 1/8, OR
(B) K6401 X 7 1/8, AL AL EXTR., SPEC. QQ-A-354-T.

5- MAT'L FOR -6 & -16 MAY BE-
(A) .081 X 1 3/8 X 6 1/2, 24ST ALC., SPEC QQ-A-362-T, OR
(B) K1895 X 6 1/2, AL AL EXTR., SPEC QQ-A-354-T

6- MAT'L FOR -11 MAY BE-
(A) .072 X 1 3/8 X 6 1/2 24ST ALC, SPEC QQ-A-362-T, OR
(B) K5401 X 6 1/2, AL AL EXTR., SPEC QQ-A-354-T.

7- MAT'L FOR -12 MAY BE-
(A) .972 X 1 3/8 X 9 1/2, 24ST ALC., SPEC. QQ-A-362-T, OR
(B) K6401 X 9 1/2, AL AL EXTR., SPEC QQ-A-354-T.

NOTE —
PBY-5 ONLY — INDICATES SKIN @ SHEET
INDICATES SKIN @ 2 & 4 SH

LET	ALTERATIONS	DATE	BY
V	ADDED AN442-D6(6) W/T		
W	(7.78 MM 17.1)		
K	CREATED -60 ASS'Y		
V	ADDED TH -60 ASS'Y AN442-6D		
Z	WT(17.16) FOR PART # -60 ASS'Y, SEE H186		
AD			
AB			
AC			

LET	DESCRIPTION	DATE	BY
C	TRACED UP TO DATE	7-10-41	CARLSON
E	ADDED AN442-D4 RIVETS - 4 REQ'D		
	ADDED AN442-D5 RIVETS - 3 REQ'D		
	ADDED D7008-D8-.125 SPACER BETWEEN STRINGER & 28C1133		
H		12-40	USEMS
J	ANT-11 WAS -10 MARK FROM	4-10-41	CARLBERG
	ASSEMBLY DRILLED WITH #28 (.0701) IN HEAD		
K	SUBSTITUTED & RELOCATED	4-10-41	ROBINS
L	SCREWS FOR RIVETS AN526DD1037-7(D) AN365D1032D		
M	ADDED 3/4 7/8 2 PL	4-10-41	ROBINS
	REPLACED AN442-D6 WITH AN526DD1032-T AN365 D1032 ON FACE AN526DD1032-T TO REQ'D WASHERS	8-3-41	GAME
N	AN3503D300 HEAD WAS B.C.D. IN SHT 3 DIM WAS 3/4 ADDED 3/4 DIM.	5-3-41	GOODGAME
P	ADDED -2E ANT. TO PBY-5A(ALL) FROM E.O. 2C470	5-26-41	GOODGAME
R	ADDED CUTOUTS TO -2 & 3 IN DET D - RELOCATED SCATTER IN REFERENCE WAS 3 WAS ANGLE // 6 WAS 4 // 2 WAS 1 // 4 WAS 3 // 1 WAS 2 // 3 WAS 5 // 5 WAS 6 // 7 WAS 8 // 8 WAS 7 // 9 WAS 10 // 10 WAS 9 // 11 WAS 12 // 12 WAS 11 // 13 WAS 14 // 14 WAS 13 // 15 WAS 16 // 16 WAS 15 // 17 WAS 18 // 18 WAS 17 // 19 WAS 20 // 20 WAS 19 // 21 WAS 22 // 22 WAS 21 // 23 WAS 24 // 24 WAS 23 // 25 WAS 26 // 26 WAS 25 // 27 WAS 28 // 28 WAS 27 // 29 WAS 30 // 30 WAS 29 // 31 WAS 32 // 32 WAS 31 // 33 WAS 34 // 34 WAS 33 // 35 WAS 36 // 36 WAS 35 // 37 WAS 38 // 38 WAS 37 // 39 WAS 40 // 40 WAS 39 // 41 WAS 42 // 42 WAS 41 // 43 WAS 44 // 44 WAS 43 // 45 WAS 46 // 46 WAS 45 // 47 WAS 48 // 48 WAS 47 // 49 WAS 50 // 50 WAS 49 // 51 WAS 52 // 52 WAS 51 // 53 WAS 54 // 54 WAS 53 // 55 WAS 56 // 56 WAS 55 // 57 WAS 58 // 58 WAS 57 // 59 WAS 60 // 60 WAS 59 // 61 WAS 62 // 62 WAS 61 // 63 WAS 64 // 64 WAS 63 // 65 WAS 66 // 66 WAS 65 // 67 WAS 68 // 68 WAS 67 // 69 WAS 70 // 70 WAS 69 // 71 WAS 72 // 72 WAS 71 // 73 WAS 74 // 74 WAS 73 // 75 WAS 76 // 76 WAS 75 // 77 WAS 78 // 78 WAS 77 // 79 WAS 80 // 80 WAS 79 // 81 WAS 82 // 82 WAS 81 // 83 WAS 84 // 84 WAS 83 // 85 WAS 86 // 86 WAS 85 // 87 WAS 88 // 88 WAS 87 // 89 WAS 90 // 90 WAS 89 // 91 WAS 92 // 92 WAS 91 // 93 WAS 94 // 94 WAS 93 // 95 WAS 96 // 96 WAS 95 // 97 WAS 98 // 98 WAS 97 // 99 WAS 100 // 100 WAS 99 // 101 WAS 102 // 102 WAS 101 // 103 WAS 104 // 104 WAS 103 // 105 WAS 106 // 106 WAS 105 // 107 WAS 108 // 108 WAS 107 // 109 WAS 110 // 110 WAS 109 // 111 WAS 112 // 112 WAS 111 // 113 WAS 114 // 114 WAS 113 // 115 WAS 116 // 116 WAS 115 // 117 WAS 118 // 118 WAS 117 // 119 WAS 120 // 120 WAS 119 // 121 WAS 122 // 122 WAS 121 // 123 WAS 124 // 124 WAS 123 // 125 WAS 126 // 126 WAS 125 // 127 WAS 128 // 128 WAS 127 // 129 WAS 130 // 130 WAS 129 // 131 WAS 132 // 132 WAS 131 // 133 WAS 134 // 134 WAS 133 // 135 WAS 136 // 136 WAS 135 // 137 WAS 138 // 138 WAS 137 // 139 WAS 140 // 140 WAS 139 // 141 WAS 142 // 142 WAS 141 // 143 WAS 144 // 144 WAS 143 // 145 WAS 146 // 146 WAS 145 // 147 WAS 148 // 148 WAS 147 // 149 WAS 150 // 150 WAS 149	6-20-41	
	ADDED NOTE "GOVT. FURNISHED"	6-20-41	
	ADDED 4 RIVETS - 4 REQ'D	8-20-41	
	CHANGED ANGLE SHOWN AT SECT B-B FROM 30° TO 45°	10-41	P.J.H.
	ANGLE REQ'D IS 30° FROM 45°	"	"
	CHANGED TO 45° FROM 30°	"	"
U	ADDED NOTE "GOVT. FURNISHED"	3-13-42	HUNT
	4 RIVETS W/S 49		

-60	PBY-5B	28C5500	1		
-60	PBY-5A	28C5844	1		
-60	PBY-5	28C5008	1	28C1001-60	
-55	PBY-5	28C5006	1	28C1132	
-55	PBY-5A	28C5844	1	28C1131	
-55	PBY-5B	28C5500	1	-15	
-55	PBY-5B	28C5500	1	-11	
-60	P2C6	28C5000	1	-9	
-55	PBY-5A	28C5844	1	-7	
-60	PBY-5A	28C5844	1	-6	
-55	NY	28C5500	1	-5	
-55	NY	28C5500	1	-4	
-55	PBY-5A	28C5844	1	-3	
	PBY-1	28C1000	1	28C1001-2	

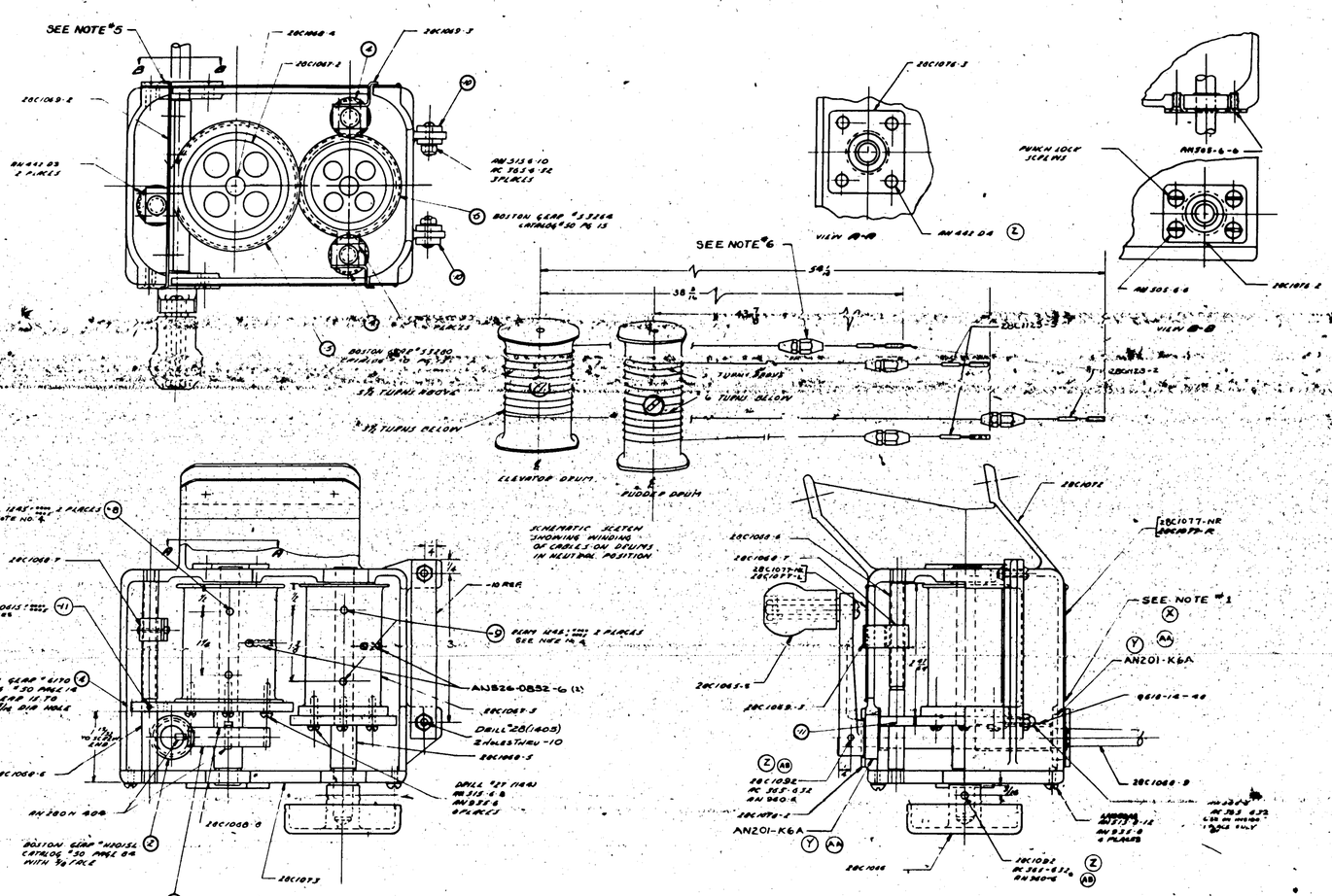
▲	151 & ON	C 88477			
▲	53 & ON	C 88476			
●	51 & ON	C 91878			
■	1-20	C 21876			
#1	-52	C 88976			
#1	-150	C 88477			

-60	PBY-5B	28C5500	1		
-60	PBY-5A	28C5844	1		
-60	PBY-5	28C5008	1	28C1001-60	
-55	PBY-5	28C5006	1	28C1132	
-55	PBY-5A	28C5844	1	28C1131	
-55	PBY-5B	28C5500	1	-15	
-55	PBY-5B	28C5500	1	-11	
-60	P2C6	28C5000	1	-9	
-55	PBY-5A	28C5844	1	-7	
-60	PBY-5A	28C5844	1	-6	
-55	NY	28C5500	1	-5	
-55	NY	28C5500	1	-4	
-55	PBY-5A	28C5844	1	-3	
	PBY-1	28C1000	1	28C1001-2	

▲	151 & ON	C 88477			
▲	53 & ON	C 88476			
●	51 & ON	C 91878			
■	1-20	C 21876			
#1	-52	C 88976			
#1	-150	C 88477			

-60	PBY-5B	28C5500	1		
-60	PBY-5A	28C5844	1		
-60	PBY-5	28C5008	1	28C1001-60	
-55	PBY-5	28C5006	1	28C1132	
-55	PBY-5A	28C5844	1	28C1131	
-55	PBY-5B	28C5500	1	-15	
-55	PBY-5B	28C5500	1	-11	
-60	P2C6	28C5000	1	-9	
-55	PBY-5A	28C5844	1	-7	
-60	PBY-5A	28C5844	1	-6	
-55	NY	28C5500	1	-5	
-55	NY	28C5500	1	-4	
-55	PBY-5A	28C5844	1	-3	
	PBY-1	28C1000	1	28C1001-2

LET	ALTERATION	DATE	BY
W	PHOTO-TRACED & REVISED PER CURRENT MODELS MK WT CABS.	9-17-56	L.HAM
X	ON BRKT AT STA. 1, LOOK 2-E ADD AN931-08-9 (2) PLAIN WASHERS UNDER CHAN.		
Y	REMOVED -7 & REPLACED WITH AN501-K6A SCR. AN501-K6A (2) TO ATTACH TO 28C1068-1	9-17-56	L.HAM
Z	CHANGED 28C1068-1 (2) TO 28C1068-1 (2), 90 DEG. CHG.	9-27-56	L.HAM
AA	CHANGED 28C1068-1 (2) TO 28C1068-1 (2), 90 DEG. CHG.	10-8-56	L.HAM
AA	REMOVED AN501-K6A (2) FROM BRKT AT STA. 1, LOOK 2-E ADD AN501-K6A (2) TO BRKT AT STA. 2, LOOK 2-E	10-8-56	L.HAM
AB	CHANGED 28C1068-2 (2) TO 28C1068-1 (2), 90 DEG. CHG.	4-23-57	L.HAM



NOTES: ~

1- LOCATE 28C1077-L & -R BY ALIGNING SLOTS WITH SLOTS IN BOX. DRILL THRU #33 (.1132) AND FASTEN WITH AN525-10-4 IN 6 PLACES EACH PLATE.
2- PACK GEARS WITH MOBIL #4 GREASE OR EQUIV. ON ASSEM.
3- FINISH-TOUCH UP WITH DULL BLACK ENAMEL WHERE NEEDED.
4- AFTER -64-8 HAVE BEEN FITTED IN DRUM, EDGE OF HOLES TO BE PEENED OVER TO INSURE TIGHT FIT & ALSO TO SECURE PIN.
5- BEND DOWN ALL POINTER TIPS TO CLEAR NAME PLATES 1/64. THEN PAINT ALL TIPS WHITE.
6- AFTER WRAPPING THE DRUMS PUT CABLES BETWEEN RUBBING STRIPS (-10) PULL UP STOPS AGAINST (-10) TO PREVENT UNWINDING OF CABLES.

PART No	ITEM	NOMENCLATURE	REQUIREMENTS PER AIRPLANE
-N	28-BARH	28C1018	1
-N	28-EPH		1
-0	28C18		1
-0	28-BMK		1
-0	28-BNE		1
-0	28-BNL		1
-0	28-BNTA		1
-0	0A-B		1
-0	28C-FA		1
-0	28C-F	28C1018	1

PART No	STOCK	MATERIAL	SPEC	REQ	REQ	REQ	REQ
				-0	-N		
AN441-D4				1	1		E-2
AN442-D5				1	1		E-2
AN960-4-R				1	1		D-1
AN960-6				8	8		D-1
AN960-6-L				1	1		D-1
AN960-8				8	8		D-1
AN960-8-L				1	1		D-1
AN960-10				2	2		D-1
AN960-10-L				1	1		D-1
AN515-6-8				8	8		D-1
AN515-8-8				1	1		D-1
AN515-8-10				1	1		D-1
AN526-6-6				8	8		D-1
AN526-8-8				1	1		D-1
AN526-8-10				1	1		D-1
AN526-10-10				2	2		D-1
AN526-10-12				1	1		D-1
AN931-6A				8	8		D-1
AC 365-632				1	1		E-2
96-8-14-46				1	1		D-1
28C1002-0				8	8		D-3
28C1128-3				1	1		C-4
28C1128-2				1	1		C-5
28C1077-R				1	-		D-5
28C1077-L				1	-		D-5
28C1076-3				1	1		D-4
28C1076-2				8	8		D-5
28C1078				1	1		D-5
28C1078				1	1		D-5
28C1040-3				2	2		D-3
28C1040-2				1	1		D-3
28C1068-1				1	1		B-4
28C1068-9				1	1		D-5
-11				1	1		D-5
-5				1	1		C-5
-9				1	1		C-5
28C1068-4				1	1		E-3
28C1067-2				1	1		E-3
28C1069-2				1	1		E-3
28C1066				1	1		D-4
28C1065-2				1	1		D-3
28C1077-NR				1	1		D-3
28C1077-NL				1	1		D-3
-11	1/4 DIA. x .500	DRILLED	2024-T4	8	8		C-1
-10	3/8 DIA. x 1.38	PHENOLIC	MIL-P-79B	4	4		B-3
-8	3/4 DIA. x 1.38	DRILL ROD	AMS 5060	2	2		C-1
-8	3/4 DIA. x 1.38	DRIVE ROD	AMS 5060	2	2		C-1
-5	SEE FACE OF DWG.			1	1		B-2
-6				1	1		C-2
-6				8	8		D-1
-6				1	1		C-1
-8	SEE FACE OF DWG.			1	1		C-1

MATL	NONE	NOTED					
HEAT TREAT		FINISH					
NAME	ASSEMBLY — FLAP CONTROL-GEAR BOX						
CONSOLIDATED AIRCRAFT CORP.							

DRAWN	CHECKED	ENGR APPROV	MFG APPROV	RELEASED
2-10-56	6-6-56			

SIZE	CODE IDENT NO.	DWG NO.	REV
J		28C1070	R

28C1070

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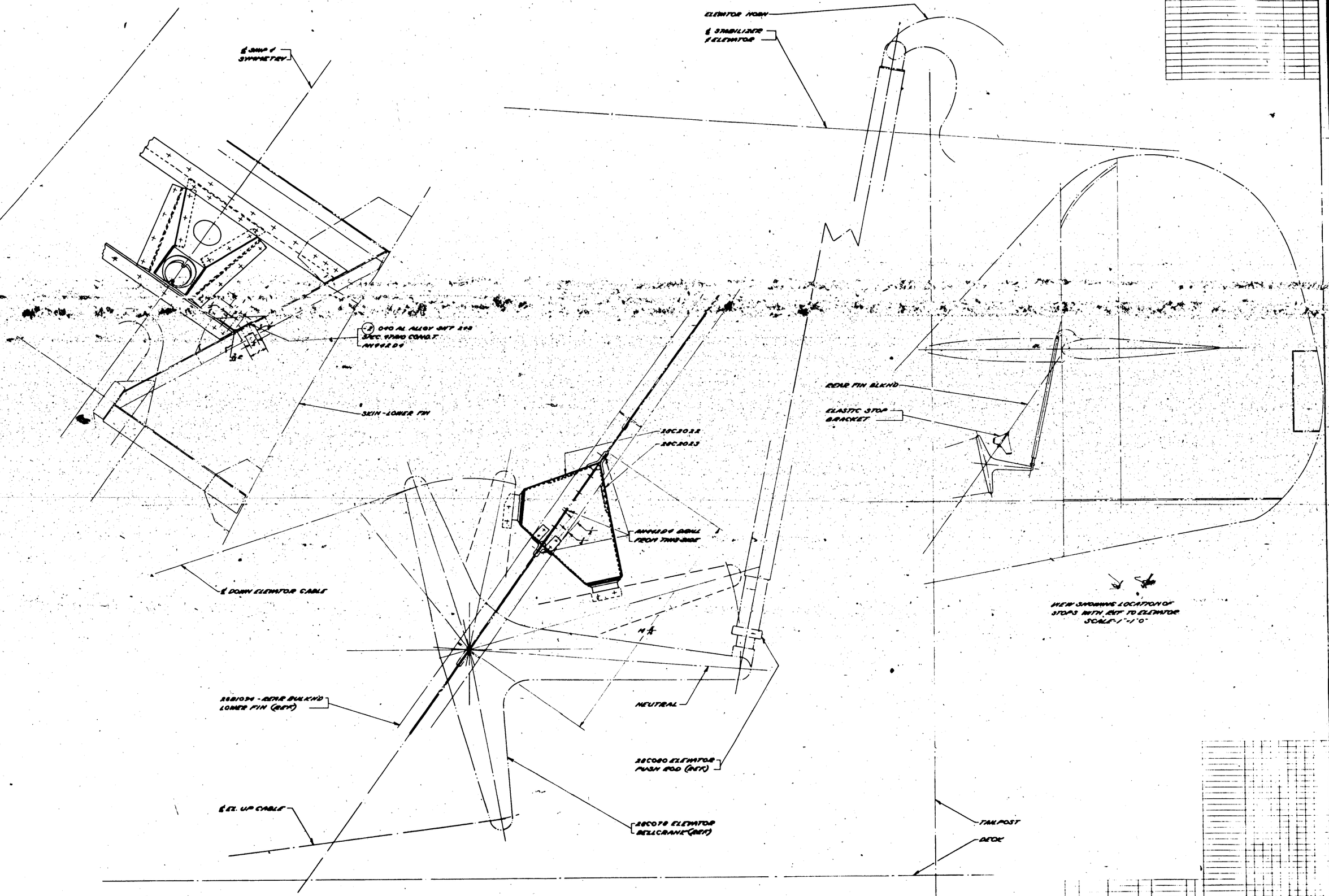
SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
A	FSCM 20		



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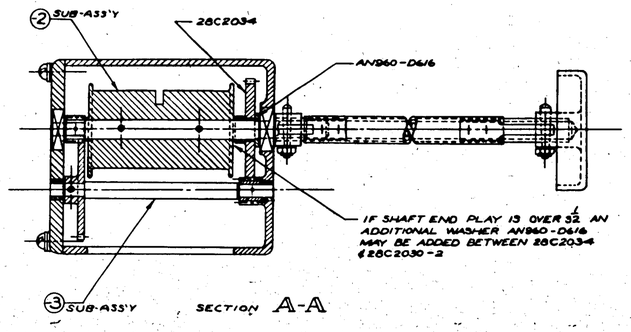
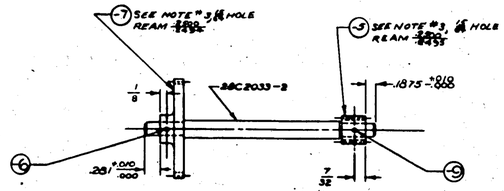
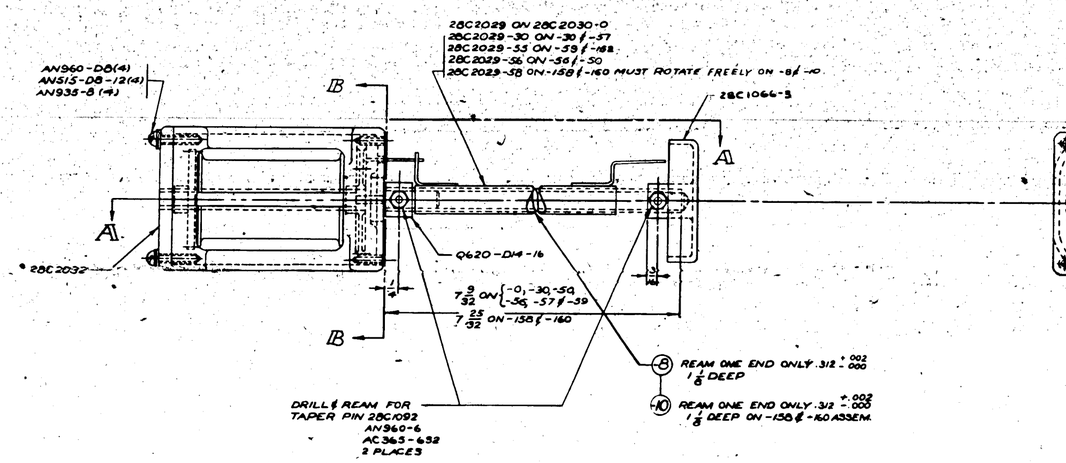
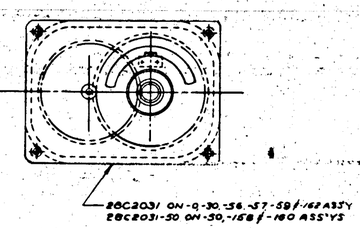
LET	ALTERATION	DATE	BY
	AS TRACED	8-12	





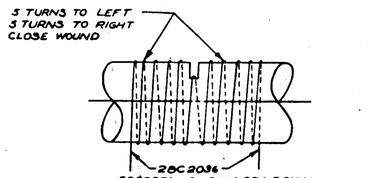
DETAIL -3 SUB-ASSY





SECTION B-B

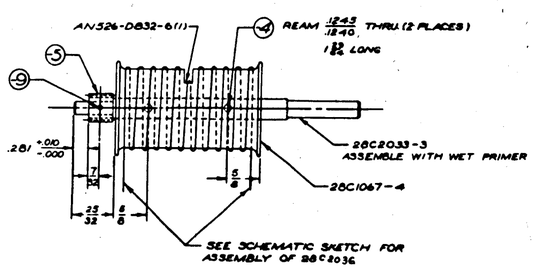
NOTE
1. PACK GEARS WITH #4 GREASE OR EQUIVALENT ON ASSY.
2. FINISH FOR -5 & -7 CAD. PLATE
3. FOR -3 & -7 BOSTON GEAR #G45 & 182 CATALOGUE 30, PAGE 8 & 14 RESPECTIVELY. BRASS. MAY BE PURCHASED FROM GARRETS. SUPPLY CO., NORTH QUINCY MASS.



28C2036-4 ON XPBY-5 ONLY
28C2036-10 ON -59 ASSEM.
28C2036-11 ON -162 ASSEM.
28C2036-16 ON -57 ASSEM.
28C2036-50 ON -158 ASSEM.
28C2036-52 ON -160 ASSEM.

SCHEMATIC SKETCH SHOWING WINDING OF CABLES ON DRUM IN NEUTRAL POSITION

NOTE:-
CABLES MUST EXTEND SAME DISTANCE AT EACH END.



DETAIL -2 SUB-ASSY

CONT #98476
CONT #91676
#344 ON
CONT #70496 & 77713 #1-33
CONT #70496

ITEM	QTY	MODEL	PART NO.	MATERIAL	SPEC.
1	1	28C2030	-0		
2	1	SUB-ASSEM	-2		
3	1	SUB-ASSEM	-3		

PARTS LIST PER ASSY.

A.C.		WIER	I.C.W.
NAVY NONE	NOTED	8-14-56	F. L. R.
HEAT TREAT	FINISH	DRAWN	CHECKED / APPROVED / DATE

NAME ASSEMBLY - AILERON TAB CONTROL - GEAR BOX

SIZE J | DWG. NO. 28C2030

H 189

28C2030 R

H 190

LET	ALTERATION	DATE	BY
C	TRACED	7-21-39	

AN442-D6

BEND LINES

SECTION E-E

AN442-D4 LOCATE FROM PRICK PUNCH. (RIVET ON ASSEM)

HOLES FOR ATTACHING UNIT (LOCATE ON ASSEM FROM UNIT)

AN442-D4 3 PLACES

7 SPACES @ 1 1/16 APPROX.

SECTION B-B

AN442-D4 RIVET ON ASSEM

TOP VIEW

(3) DETAIL .051 AL ALLOY SHT SPEC 4TA10 COND A (2430), HT 3E53

(2) .051 AL ALLOY SHT SPEC 4TA10 COND A (2430) HT 3E53

2BB1100-96 (REF)

NOTE - 1/8 BEND RADIUS IN CORNERS, TAPER TO R

SECTION A-A

SECTION D-D

SECTION C-C

2BB1100-26 (REF)

AN442-D6 3 PLACES LOCATE ON ASSEM.

2BB1100-4 (REF)

2BB1100-64-7 (REF)

(2) (REF)

(3) (REF)

(4) (REF)

NOTE - -2 & -3 DESIGNED FOR DROP HAMMER OPERATION

SIDE VIEW LOOKING OUTBOARD

PRICK PUNCH 7 PLACES (ON OPPOSITE SIDE)

3 SPACES @ 1

(4) DETAIL .051 AL. ALLOY SHT SPEC. 4TA10 COND T (24ST)

VIEW ON PORT SIDE LOOKING FORWARD

FORWARD

BUMP IN AS SHOWN TO CLEAR HEEL OF BLKD DIAGONAL

VIEW A

14 3/32 (REF) TO KEEL LINE

℄ SHIP

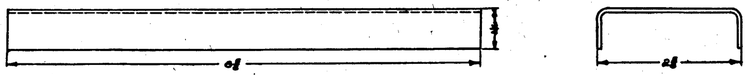
BLKD @ 1.00

28C3117 FOR	7-21-39	P&W-4	AN-2000				
REPLACES P&W-3		P&W-3	28C2000			28C3117	
89		MODEL	NEXT ASSY.	QTY PER	PART NO.		
REQUIREMENTS PER AIRPLANE		MAT	PARTS LIST PER ASSY.				
NOTED MATERIAL	NOTED SPEC	NOTED HEAT TREAT	2-P-BAL FINISH				

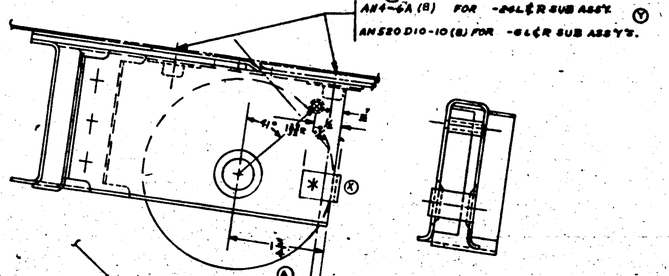
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

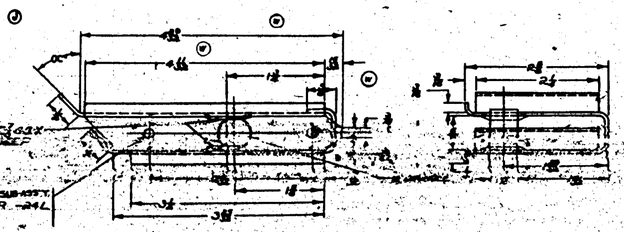
PLATFORM - RUDDER MOTOR - NORDEN CONTROL

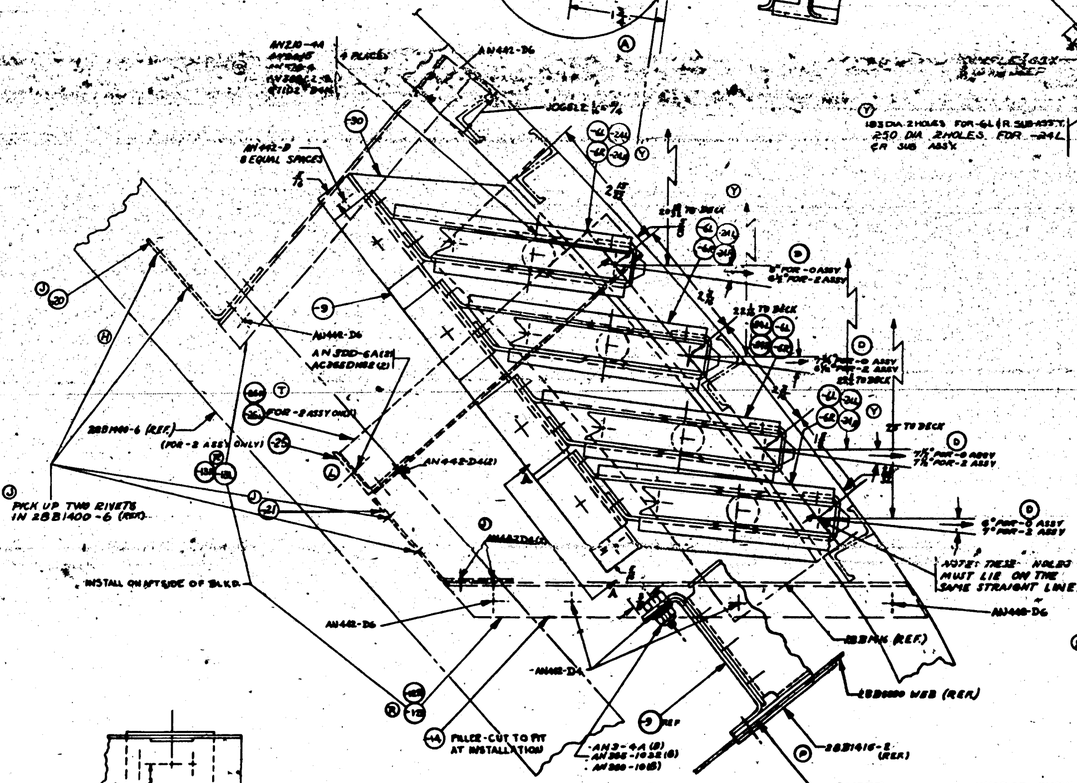
28C3117



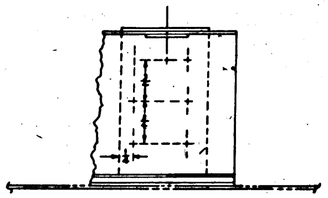
DETAIL -9



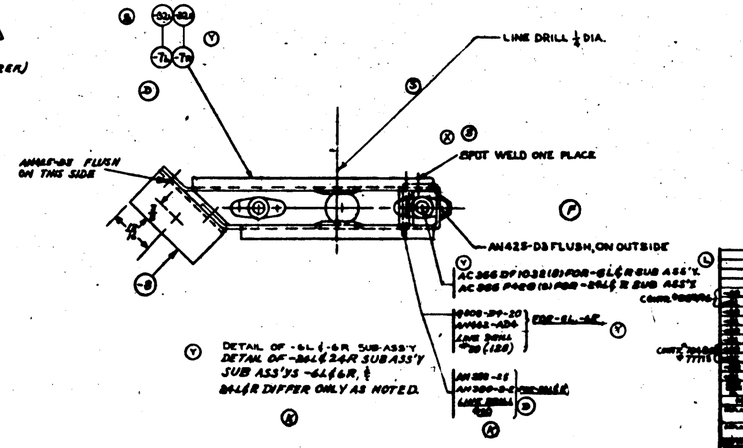




VIEW LOOKING AFT PORT SIDE



VIEW A-A



DETAIL OF -6L & -8 SUB-ASS'Y
DETAIL OF -24L & 2 4R SUB ASS'Y
SUB ASS'YS -6L & R, & 24L & R DIFFER ONLY AS NOTED.

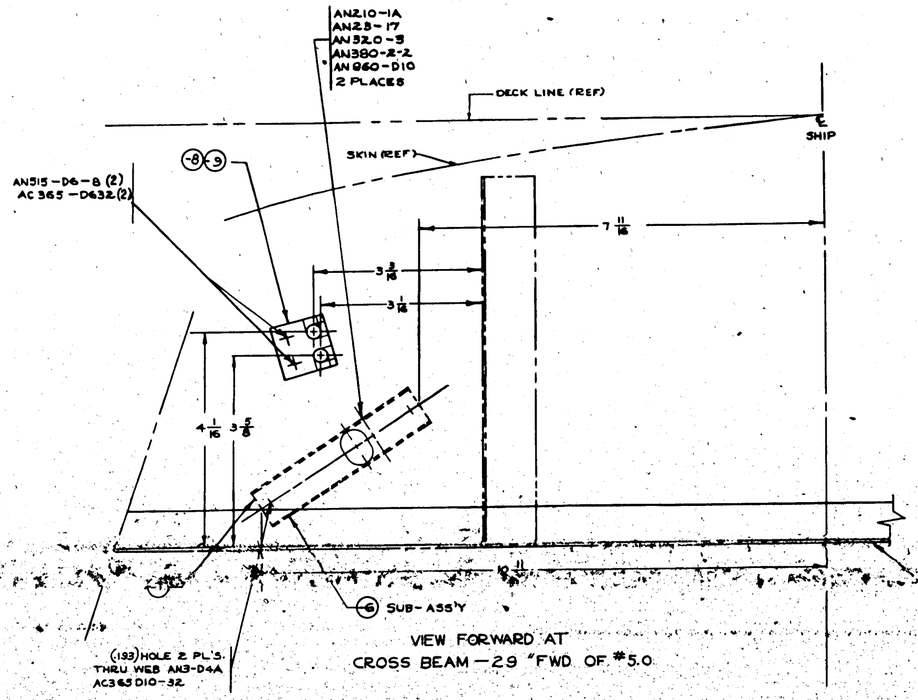
DETAIL -7L
DETAIL 32L
-7 & -32 DIFFER ONLY AS NOTED

1. HEAT TREAT -7 L & R SRS3 TO COND T.
2. FINISH-2S-6-26 · 2-P-2TP
3. BENDS 1/8 R. UNLESS OTHERWISE NOTED.
4. -2 ASS'Y SAME AS -0 ASS'Y EXCEPT AS NOTED.

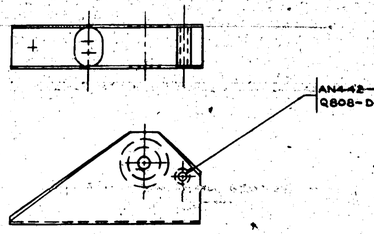
SPOTWELDING SYMBOL
THIS SYMBOL INDICATES SPOTWELDING SHEETS ARE NOT INDICATED ON THIS DRAWING BY SYMBOLS.

LET	ALTERATION	DATE	BY

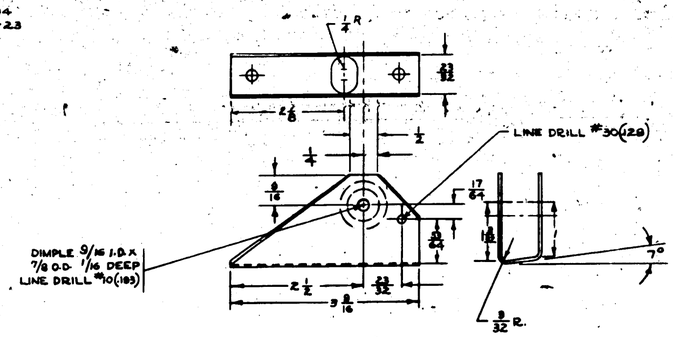
LET	ALTERATION	DATE	BY



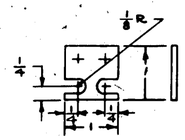
VIEW FORWARD AT
CROSS BEAM — 29 "FWD OF #5.0



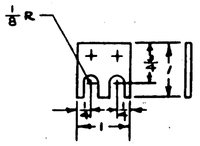
DETAIL - 6 SUB ASS'Y



DETAIL -7



DETAIL - 8



DETAIL -8

H 192

FINISH CODE
Z ANODIC TREATMENT
P P-27 PRIMER
GP GREEN PRIMER
C CADMIUM PLATE

PART NO.	STOCK	MATERIAL	SPEC	LAY OUT REQ	-0 REQ	-2 REQ	-3 REQ	-4 REQ	-5 REQ	ZONE

LET	ALTERATIONS	DATE	BY	CHKD
A	CHANG'D DETAIL DIM "J" -ZA33Y, DETAIL & LOCATING DIMENSIONS OF -33A33Y DETAIL & LOCATING DIMENSIONS OF SLOTS IN RUDDER PER DETAILS OF HOLES IN -10, & STANDARD PARTS IN -ZA & -ZB ASSYS.			
B	ADDED -57 INSTALLATION PER P&W-SA, JT-3 CNC EDA-10 REQUIREMENTS. (NO LOCATING DIA'S FOR 28C5749 BRKT USED TO REPLACE -7 SUB ASSY FOR -57 INSTALLATION	5-10-41	MANBY	
C	REMOVE -B1-9 (REPLACED BY 28C7173-8 JOGGLE -2L1-3R SUB ASSYS) & CALL OUT -1L1-4R FOR THIS PART FOR -57 REQ.	6-4-41		
D	ADDED 3/8 DIM. TO DWG	6-14-41		
E	CHANGED DIM TO 2 9/16 (WAS 1 7/16) 3/8 DIM. (WAS 5/16) & 1 7/64 DIM (WAS 2 9/64) & 2 37/64 DIM (WAS 2 19/32)	12-4-41		
F	CREATED -2B ASSY SAME AS -2 EXCEPT -2B-9 INCL. CORRECTED LIST OF REQ PER AIRPLANE	12-18-41		

LET	ALTERATIONS	DATE	BY	CHKD
G	CHG'D -B 1/2 .064 X 2 1/8 X 1 1/8 -2B50 DURAL (4 7A10A) WAS .064 X 2 1/8 X 1 1/8 DURAL (4 7A10)			
H	CHG'D NOTE FROM "AN442-D4 RIVETS - AN442 - D4" TO "AN3-4A (2) REQ) AN3-5A (4 REQ) & REQ'D AC 365-1032 (2 REQ) & ADDED TO B/M NO WT. CHG			
J	NOTE "28C5749 ON -57 & -58 WAS "FOR -57 USE 28C5749" IN B/M ADDED 28C5749-01 FOR -2B ASSY. IN REF/AIRPLANE & W. ADDED -2B FOR C. NO A(5) 464, ADDED C. NO -2B LIMITING -1T. NO WT. CHG.			

LINE DRILL Ø.30 (12B) THRU -3 & -4 AN442 AD4 Q808-D4-24 2 PLACES

DIMPLE 3/4 LD X 1 1/8 O.D X 1/64 DEEP
LINE DRILL 3/8 THRU -3 & -4
AN210-5A
AN26-18
AN320-6
AN380-3-3
AN960Q-D616

FOR -12 & -13 ONLY JOGGLE BOTH FLANGES

DETAIL -ZL & -11 ASSY (-ZR & -11R OPP)
SCALE: 12" = 1'-0"

DASH No	"A"	"B"	"C"
-0	1 1/4	5 1/16	5/16
-57	1 0 6°	4 1/16	1/4
-58	1 0 5°	4 1/64	1/4

LINE DRILL Ø.30 (12B) THRU -6 & -7 AN442-AD4 Q808-D4-24 2 PLACES

DIMPLE 1/2 LD x 3/8 O.D. x 1/16 DEEP
LINE DRILL Ø.10 (19B) THRU -6 & -7
AN210-2A
AN123-10
AN320-3
AN330-2-2
AN960-D10

0A-10, ZB-5AMC, PBY-5A, ED A11150
PBY-5A, ZB-5AMC, OA-10

0A-10 (ALL) PBY-5A (# 0400N) ZB-5AMC # 2600N

28C5749 ON -57 & -58
DETAIL -J ASSEM

DETAIL -2B & -11 ASSY (-2A & -11 OPP)
SCALE: 12" = 1'-0"

-14 FOR -57 INSTALL. SEE "C" DIM. IN TABLE
-10 CUT TO FIT UPON INSTAL'N

AN3-4A (2 REQ) AN3-5A (6 REQ)
AC 365-1032 (2 REQ)
AN960-10 (2 REQ)

B'L'K'D = 5

JOGGLE DOWN .064 BOTH FLANGES ON -12 5/16 & -13 1/16 ONLY

28C5753-6 (REF) FOR -57 INSTALLATION REPLACES -8

FOR -57 INSTALL SEE TABLE

AN3-4A
AN3-5A
1/4 DIA. HOLE IN -10 LOCATE ON INST.
28C4014-B (REF) FOR -0 INSTALLATION
28C5749 ON -57 & -58
28C5753-6 FOR -57 INSTALL. REPLACES -9 (REF)
LOCATE ON INST. 1/4 SLOT THRU -10 & -9

DASH No	"A"	"B"	"C"
-0	1 3/4	13/16	7 7/16
-57	1 9/8	1 3/32	6 1/16
-58	1 3/8	1 3/32	6 1/16

DECALINE ℄

CUT SLOTS IN B'L'K'D = 5

SHIP VIEW F'W'D

DETAIL -8
SCALE: 6" = 1'-0"

DETAIL -9
SCALE: 6" = 1'-0"

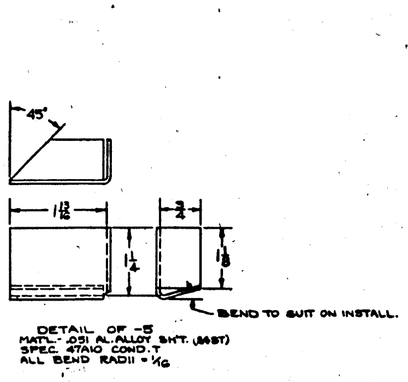
NOTE: INSTALLATION IS SYMMETRICAL ABOUT ℄ EXCEPT FOR -5 & 28C5749 SUB-ASSEMBLIES

ALL UNMARKED RADII 1/8

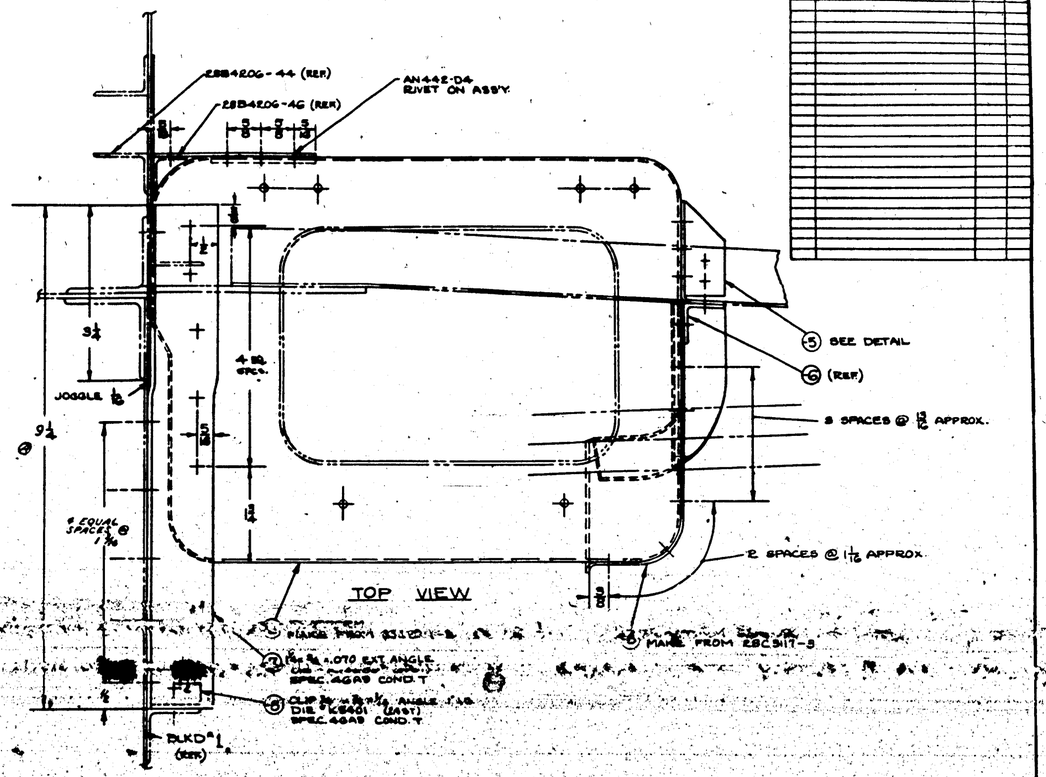
FINISH CODE	
Z	ANODIC TREATMENT
P	P-29 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMIC PLATE
GP	GREEN PRIMER

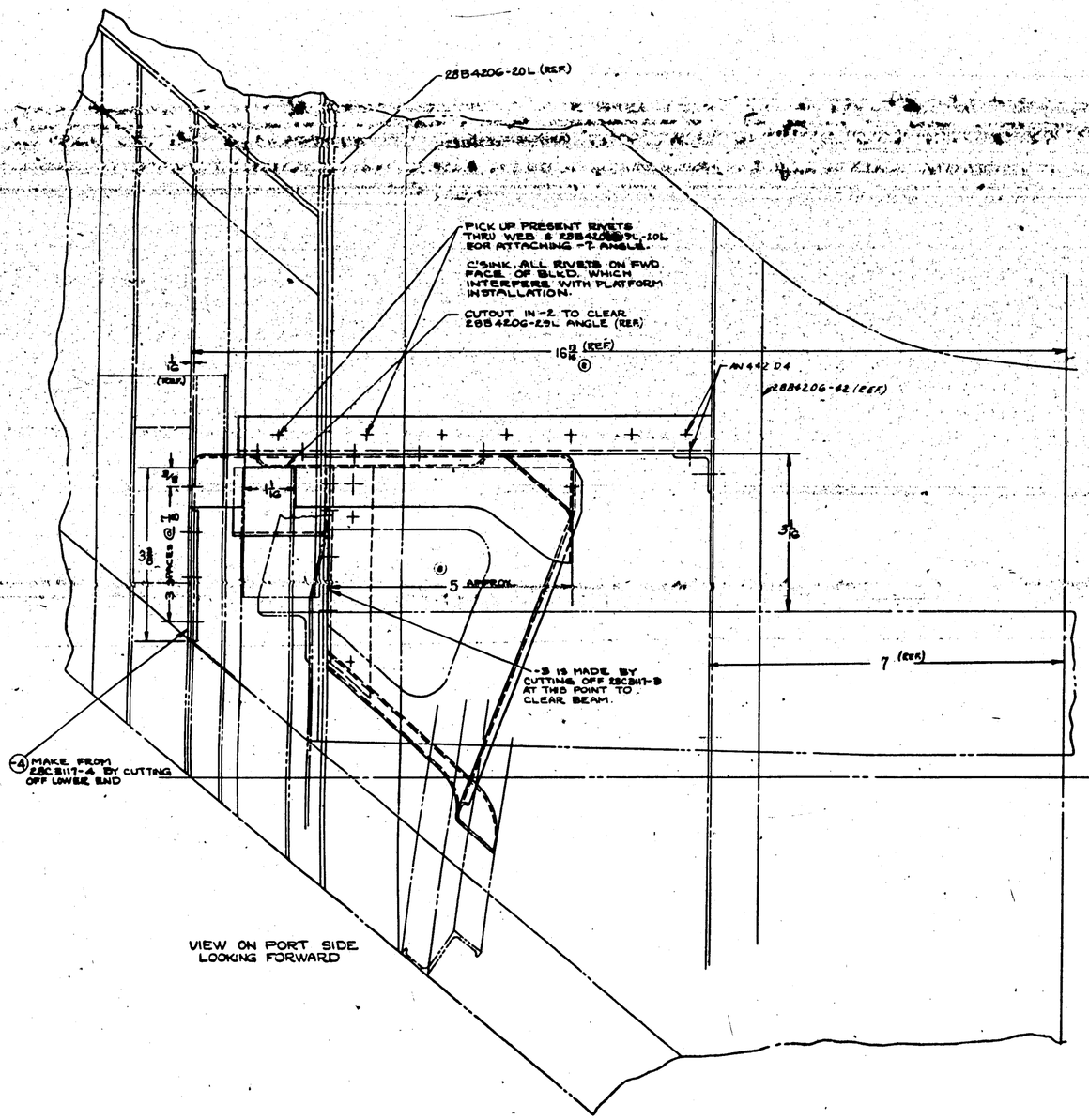
C. NO A(5) 464-AC. 88476
2 & ON
C. 77713 (C. 70496 # 6 & ON MJORLY
C. 70496 # 1 TO 5 INC

| PARTS LIST PER ASSY. | | |

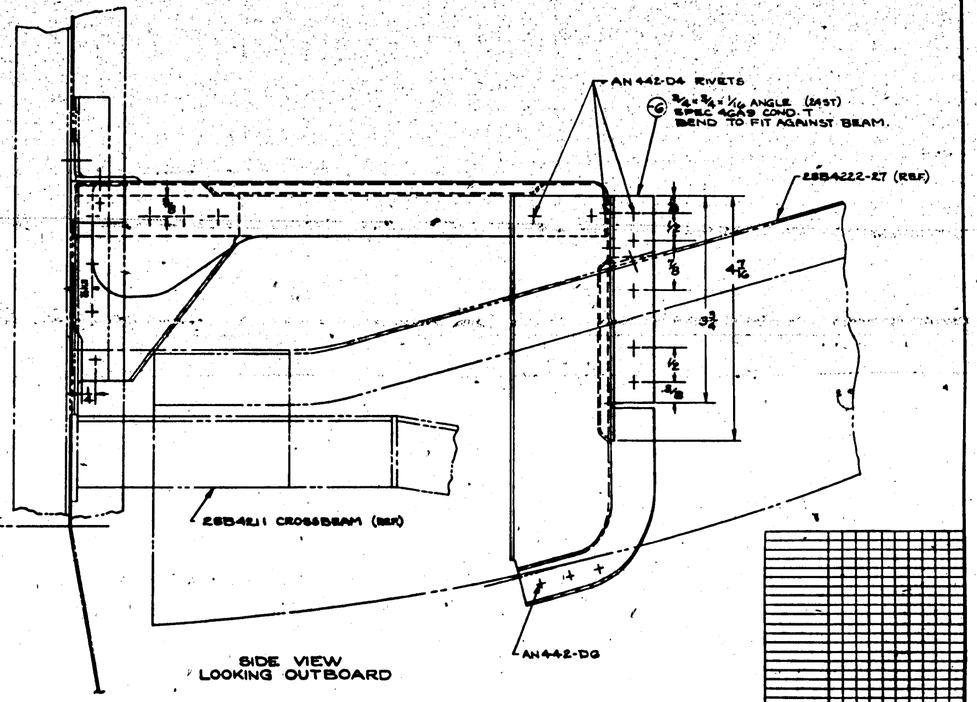


DETAIL OF -5
MATL- .051 AL. ALLOY SHT. (2657)
SPEC. 47A10 COND. T
ALL BEND RADII = 1/16





VIEW ON PORT SIDE
LOOKING FORWARD



SIDE VIEW
LOOKING OUTBOARD

FORWARD

28C3117				
REVISED	NOTED	NONE	2-28-58	
	INSTAL. - PLATFORM - RUDDER MOTOR - A.F.C.			28C4018

H 194

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	-67 ASSY ADDED TO B/L (EARLY USE) & PARTS BOOK ADDED TO B/L. DELETE NOTE 5 FROM DWG. ADD NOTE 2 TO ASSY -1 & -3 DWG.	4-15-52	
B	ADD -67 ASSY TO B/L & PARTS BOOK. ADD NOTE 6 TO DWG.	5-15-52	
C	ADD -57 ASSY TO B/L & PARTS BOOK. ADD NOTE 7 TO DWG.	6-5-52	

C-885205

C-885206

C-885207

C-885208

C-885209

C-885210

C-885211

C-885212

C-885213

C-885214

C-885215

C-885216

C-885217

C-885218

C-885219

C-885220

C-885221

C-885222

C-885223

C-885224

C-885225

C-885226

C-885227

C-885228

C-885229

C-885230

C-885231

C-885232

C-885233

C-885234

C-885235

C-885236

C-885237

C-885238

C-885239

C-885240

C-885241

C-885242

C-885243

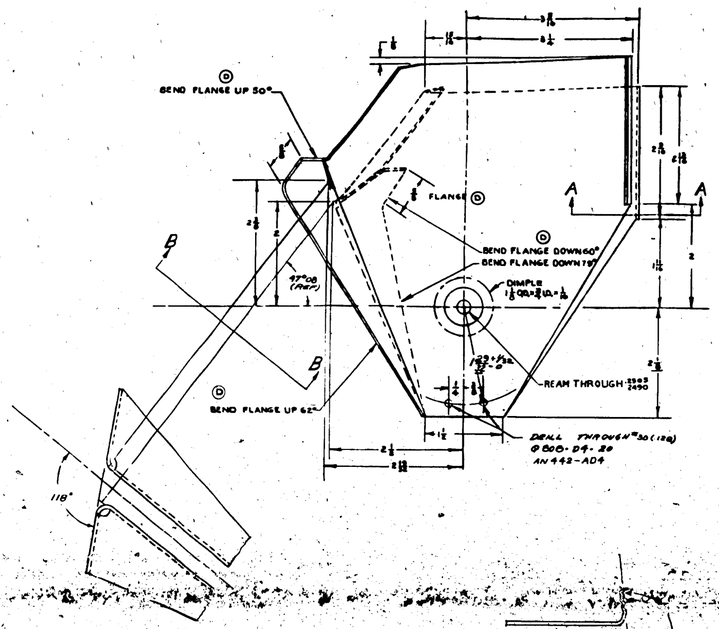
C-885244

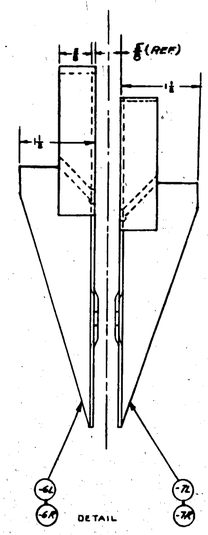
LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	ADDED P-104-511 & ADD'D DIMS TO PART DWG.		
B	ADD'D ALLOY, RAD. SPEC. STATE CONDUCTIVITY VS. DUREX AS ALLOY, RAD. SPEC. AND CONDUCTIVITY		
C	ADD'D DIMENSION		
D	REMOVED STABILIZING DIMS & ADD'D A DIM FOR FIG. B ALSO NOTE 4		
E	ADD'D NOTE 5		
F	ADD'D NOTE 6		
G	CHG'D MATL. SPEC. NO. FROM AN3-3A TO AN3-3M & ADD'D SPEC. NO. AN3-3A (3) TO MATL. SPEC. NO. & ADD'D DIA. & LENGTH OF AN3-3A (3) & (5) TO MATL. SPEC. NO. & ADD'D DIA. & LENGTH OF AN3-3M (3) & (5)		
H	CHG'D MATL. SPEC. NO. FROM AN3-3M TO AN3-3A & CHG'D MATL. SPEC. NO. FROM AN3-3A (3) & (5) TO AN3-3M (3) & (5)		

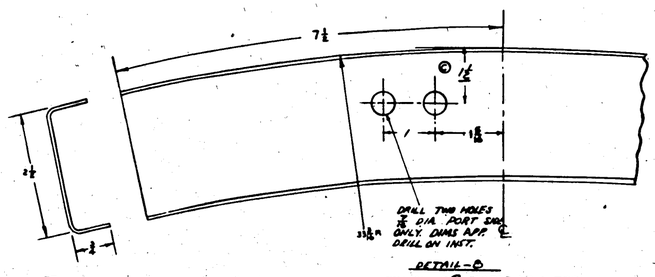
ECO 20396

ECO 95255

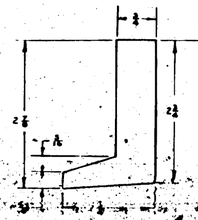




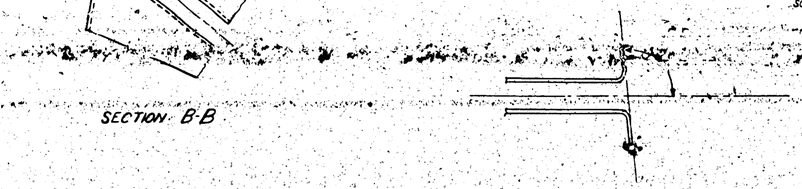
SCALE 12"=1'-0"



DETAIL-B
SYM. ABOUT ℄ EXCEPT AS NOTED
12"=1'-0"



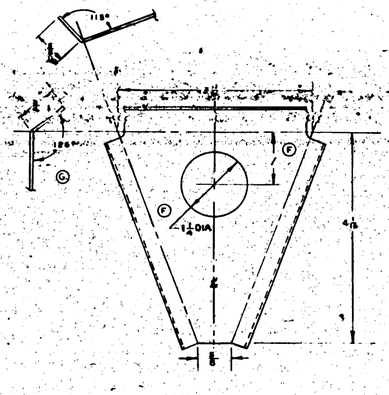
DETAIL-10
12"=1'-0"



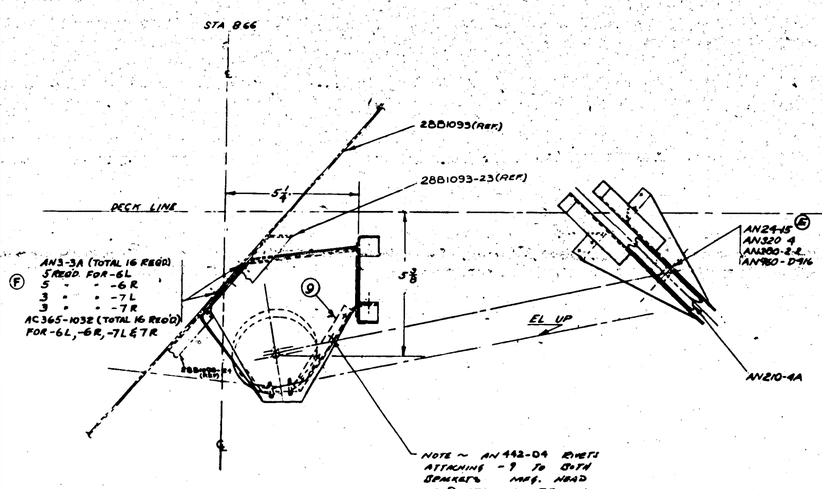
SECTION B-B

SECTION A-A

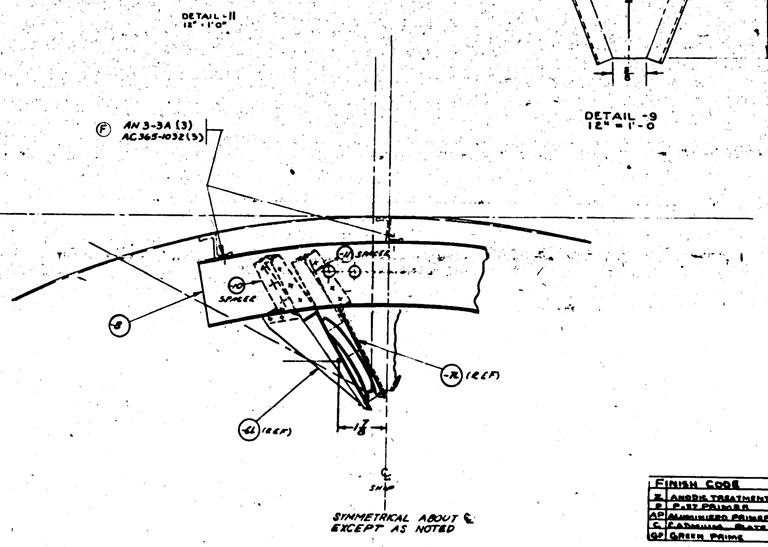
DETAIL-11
12"=1'-0"



DETAIL-9
12"=1'-0"



FORWARD



SYMMETRICAL ABOUT ℄ EXCEPT AS NOTED

VIEW LOOKING FORWARD

FINISH CODE	
A	ANODIC TREATMENT
P	P-82 PRIMER
AP	ALUMILITE PRIMER
C	CADMIUM PLATE
GP	GREEN PRIME

NOTES

1. ALL UNMARKED RADII 1/8
2. HEAT TREAT ALL COND. A MAT'L. TO COND. T PER SPEC. 32-53

C88476
C91876
C70496 (77779)
C70496

PART NO.	ORDER	MATERIAL	SPEC	LOT MIN	LOT MIN	LOT MIN	LOT MIN	LOT MIN
	PARTS LIST PER ASSY.			-4	-5	-6	-7	-8
-4	.064"(W)x1 1/2	ALCLAD 2024	7A10-T					
-5	.064"(W)x1 1/2	ALCLAD 2024	7A10-T					
-6	.081"x2 1/8 FLG W	ALCLAD 2024	7A10-A					
-7L	.081"x2 1/8 FLG W	ALCLAD 2024	7A10-A					
-7R	.081"x2 1/8 FLG W	ALCLAD 2024	7A10-A					
-8	.812"x1 7/8 DIA	ALCLAD 2024	7A10-A					

HEAT TREAT	NONE	Z-P-2 QR	
NAME	PULLEY INSTALL BF 866 ELEVATOR UP		
	CONSOLIDATED AIRCRAFT CORP.	SIZE	J
		DWG. NO.	28C4028
		SCALE	1/2
		SHEET	1

H 196

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
	ADDED -7 BY PR 30218				WAS AN3C-14C (FEB-20) NOW (FEB-20) WAS AN4081-3 (MAR-53)	2-53	KC Kinney
	AN342-D3 NOW AN442-D3			N	REMOVED, WAS ROTATED 90°	2-53	KC Kinney
	PER-NC50 W/DWG BY MA-1				NO WT. CHG	2-53	KC Kinney
	3/4 x 2 3/4 x .064 Al (DWG)	2-2-53					
A	REMOVED DIMPLES						
C	1 3/16 WAS 1 5/8	4-5-52					
D	POSITION OF NUT PLATES CHANGED FROM HORIZONTAL TO VERTICAL	4-23-52					
E	ADDED DETAIL -9 -10 & -11						
	ADD FOR AN4003-3 AN 3C 5012 (4 EA) W/AN4003, AN3100-3						
	ADD FOR AN4003-3 AN 3C 5013 (4 EA) CORRECTED QTY.						
F	ADDED DETAIL -12 CONSIDERED MINOR	10-8-51					
G	AN 526-6 (16 REQ) WAS AN 8-16	4-23-51					
	REMOVED NOTE "TO DRILL BOLT HEAD"						
H	ADDED ADDITION TO DETAIL -12	3-28-51	LITTLE				
M	MADE DECIMAL ADDED TO DIM	4-3-51	Chrisman				
	ITEM QTY 022-034-047 (2) AN 442-D4 WAS AN 442-D3	3-2-51	Williams				
K	CHANGED DWG BY PER REVISIONS ON DETAIL DWGS	2-2-51					
	3003AL & 3003J5	2-2-51					
L	ROTATED NUT PLATE 90° ON W/DWG	1-23-51	Chrisman				
M	ON P/N 28C5009-6 WAS 28C5018-R AN 3C-14 (5 REQ'D)						

ED NO'S

ED 1/1805
ED 1/1806

ED 1/2/1903

ED 2/1907
ED 3/1907

PEN-C ED 4/1979
ED PH 322
PEN-F
ED-E 1/15

ED 5/1931

ED 6/1931

ED 7/1931

ED 8/1931

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3 PLACES — ELASTIC STOP ANCHOR NUT - 2BAI-062 DRILL #30 (.128) AN 425-D4 (1)
NOTE: RIVET HEADS MUST NOT BE MORE THAN 1/64 THICK ON INSIDE OF BRACKET

3 PLACES (6) — LINE DRILL 3/16 THRU AN 210-5A AN 16-14 QTY'D IN 25-064 ON TOP ONLY

AN425-D8

28C5028

AN 960 D5 4 PLACES

-12 (REF)

-9 (REF)

AN 960 D5 10 PLACES

NOTE: THIS BOLT TO BE LOCATED WITH LARGEST POSSIBLE EDGE DIST. ON BULKHEAD ANGLE

AN 442 D5

-10 (REF)

6 1/2 (REF)

3 HOLES (REF)

AN 960 D5 4 PLACES THRU 28C5013 & BEAM

-11 (REF)

AN 442 D5 (1)
AN 442 D8 (2)

AN 960 D5 4 PLACES THRU 28C5013 & STRINGER

28C5013-L BEING ON AFT SIDE OF BLEND LOCATE UPON INSTALN APPROL AS SHOWN

-6L ASSEM

AN 960 D5 6 PLACES THRU 28C5013 & BEAM

TRIM TO FIT

-6 ASSEM

VIEW FWD AT AN SIDE AN OPP

---

1 — AN425-D6 — QTY 22-024-064 (1) — 22AN-064 ANCHOR NUT

7 — SECT A-A
TYPICAL SECT THRU PULLEY BRACKET SHOWING INSTALL OF WASHERS

7 PLACES — AN 960 D5 / AN 3100-4 / AN 310-2-2 / QTY 008-AU 7-064

28C5013

28C5012

28C5011

LINE DRILL #30 (.128) AN 960 D4 FLUSH HEAD HERE QTY 008-0-9-24

-6L ASSEM SHOWN
-6R ASSEM OPP

DETAIL -11 SCALE 12"=1'0"

AN 442 D5

DETAIL -10 SCALE 12"=1'0" MADE FROM Y2-A-267

F (257) DRILL

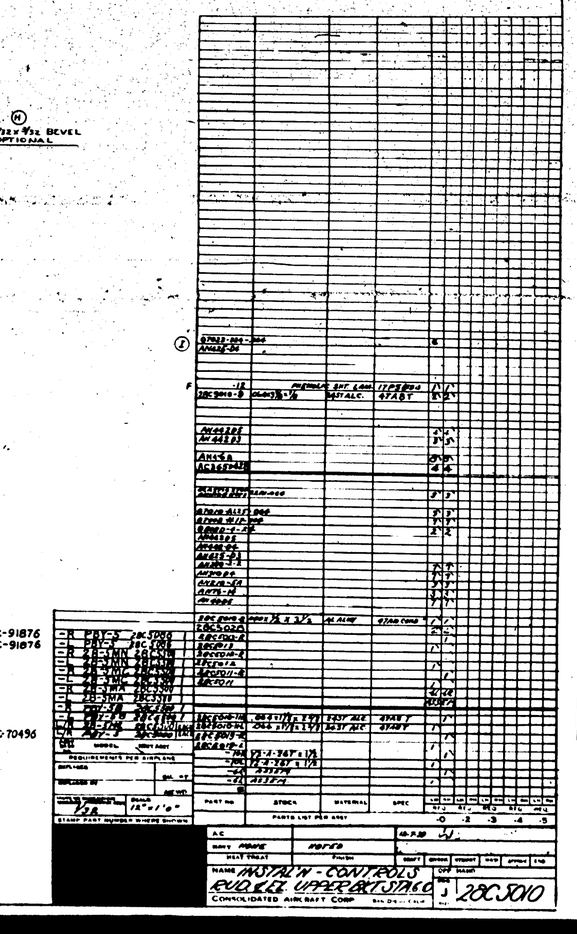
H 3/32 x 45° BEVEL OPTIONAL

DETAIL -12 SCALE 12"=1'0"

FINISH -9, 28C5011 28C5012 28C5013
2-P- AP
BEND RADII = 1/16 R

C-91876
C-91876

G-70496



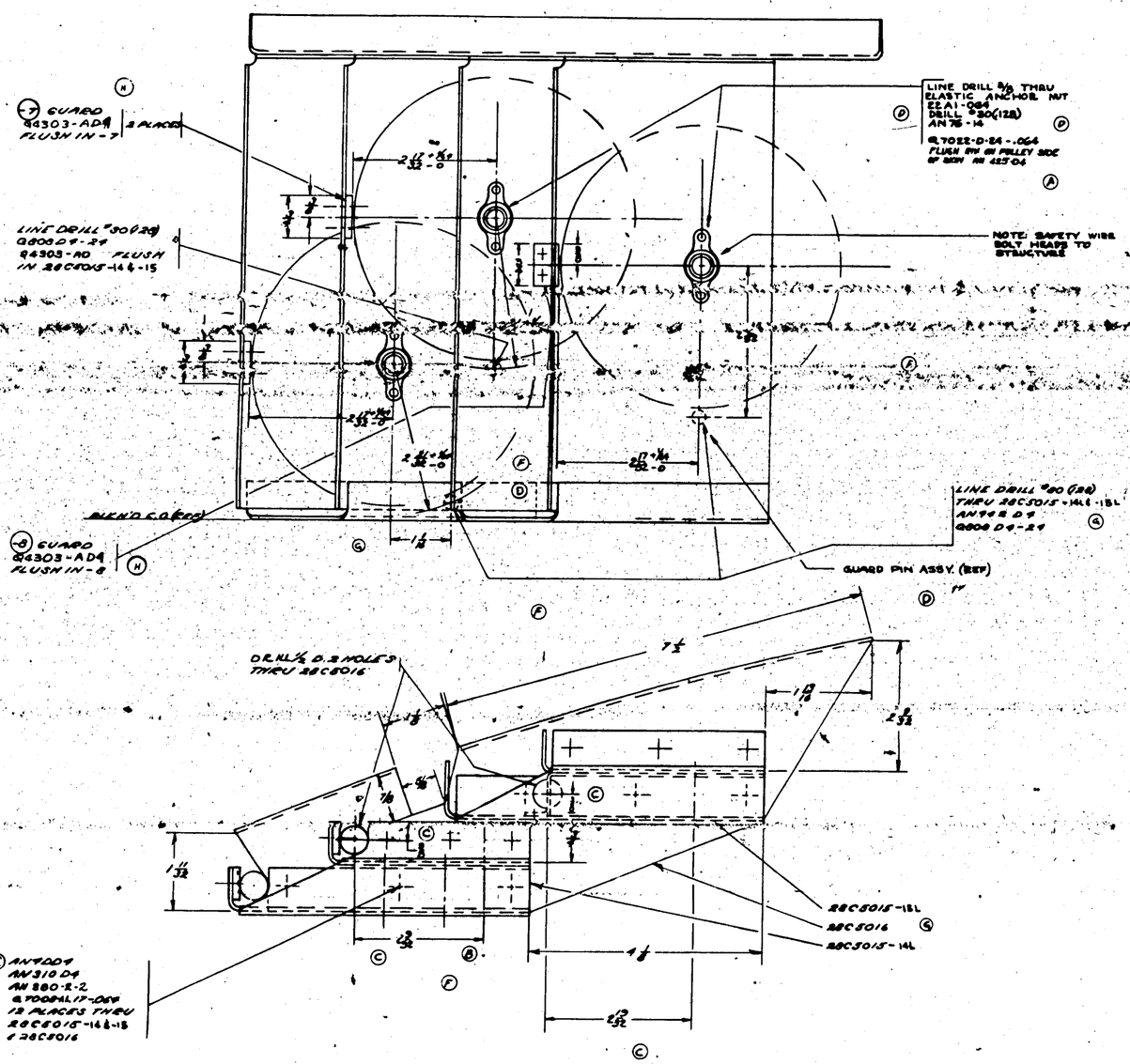
PART NO	STOCK	MATERIAL	SPEC	-0	-2	-3	-4	-5
	PARTS LIST PER ASSY							

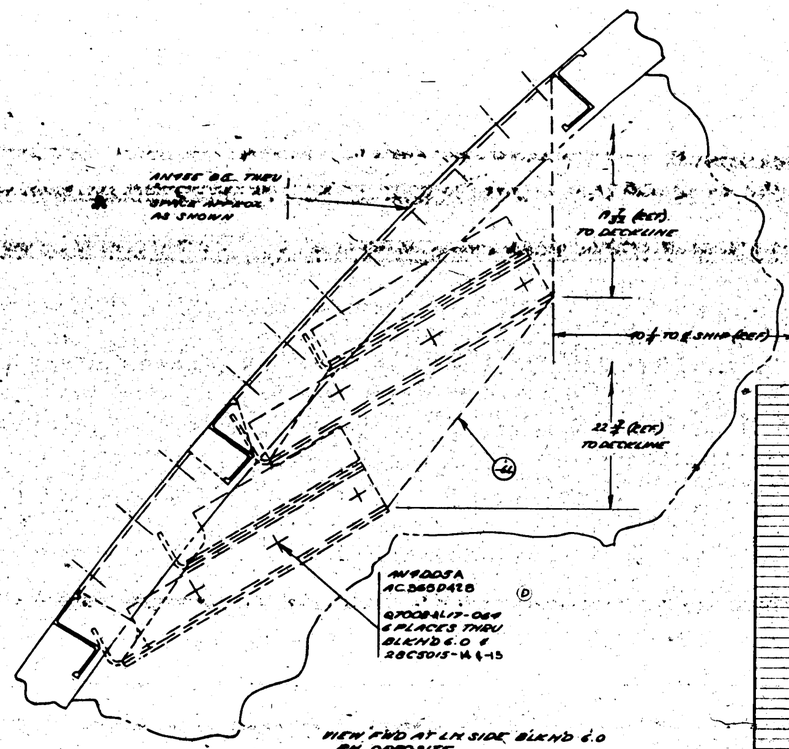
A.C.		48-5-20	SU
PART NAME	NOTES		
HEAT TREAT	Finish	DRAFT	CHECK STRUCT STRESS SPEC
NAME INSTALN - CONTROLS RUDDER UPPER BRT STA 0		OPP HAND	
CONSOLIDATED AIRCRAFT CORP		SIZE J	DWG NO 28C5010

H 197

LET	ALTERATION	DATE	BY
A	NOTE CONTROL SHT AS REVISED	1/11	
B	R&D-4 HOLE ADDED		
C	HOLE RELOCATED; AN4DD4 & (2) WAS AN4DD3-6D		
	(2) WAS AN4DD3-6D		
	E.O.NO. WAS E-931		
D	REMOVED AN4DD2E(G); AN3610A, AN960-3-L ADDED AN4DD5A(G) ADDED AN4DD5A(G); HOLE RE-LOCATED, GUARD MOVED. GUARD PIN ASSY ADDED R/A CHANGED.		
E	AN76-14 WAS AN76-13	1/11	
F	DELETED ADTE, REVISED A/N	11/11	
	5/8 I.D. DIMPLES R/M; SEE DETAIL		
	4 SCREWS WAS 3 SCREWS - 11-18		
	R/M 1 ANDBK AN4DD1-A3; RENUMBER NOTE.		
G	CHANGED TYPE I R/M AS PER REVISED MAT'L SPECS. -18 WAS -6; -18 WAS -10	7-7-11	
H	FOR -11-B & -12-B ADD & REVISED GEDAA-AD. WAS NOT CHG.	4-21-48	
J	IN BOM GEDAA-ADD-064 WAS GEDAA-AD. NO WT CHG.	5-21-48	
K	REVISED R&D/FRAME "SHAKE" EFFECTED SEE CHG # IN R&D HANDLING NO WT CHG.	4-21-48	

E.O. 17188
E.O. 22502
E.O. 18497 C A
E.O. 23357 C
E.O. A6589
E.O. 35139
E.O. "Blank"





FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMATE PLATE

C.9/876
C.76496

NOTE: FINISH -8 ZP

ELASTIC STOP NUT CORP.

PART NO.	STOCK	MATERIAL	SPEC	-5	-6	-7	-8	-9
MS21042L								
AN960-D4								
AN310D4								
AN4DD4								
7008AL17-064								
94303-AD4								
MS21042L				4C	4C			
AN960-D4				12	12			
AN310D4				12	12			
AN4DD4				12	12			
EEAI-064		COMM.		5	5			
28C5015-14L	R 8000 11	2024 T4	7075 T6	1	1			
28C5015-15L	.062 x 3/4	Alclad	7075 T6	2	2			
28C5016-14L					1			
28C5016-15L					1			
-5 PRY-6								
-6 PRY-8								
-7 PRY-10								
-8 PRY-12								
-9 PRY-14								
-10 PRY-16								
-11 PRY-18								
-12 PRY-20								
MS21042L				4C	4C			
AN960D4				12	12			
AN960D4A				12	12			
-14		ASSY'D		1	1			
-15		ASSY'D		1	1			
94303-AD4				2	2			
Q7008AL17-064				24	24			
AC365D428				12	12			
AN4DD5A				12	12			

REQUIREMENTS FOR AIRPLANE
DESIGNED BY
RELEASED BY

SCALE	
1/2	AS SHOWN

A6									
HEAT TREAT	FINISH								
NAME INSTALN-CONTROLS-FLUID LEL-LOWER REXT STA 6.0									NONE
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.									28C5014

H 198

	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
A	NOTE CONTENTS SHIP. WAS REVISED	11-8-					
B	#4D4 HOLE ADDED						
C	HOLE RELOCATED: AN4DD4 & (1) WAS AN4DD10(1) & THK WAS 5/32						
D	REMOVED AN4DD8(6); AN5104 AN4DD-3.5; ADDED AN4DD5A(2) AN4DD4A(6); HOLE LO- CATED, DIMS AS MKD. GUARD PIN ASSY ADDED, B/A CHANGED						
E	AN 76-14 WAS AN 76-13	11-8-					
F	REVISED NOTE. REVISED & DIM. 2.75 DIMS IN 8 PLACES; 1 HOLE REQUIRED WAS 38C5014-1C18 #4D43-AD WAS #4D43-A3. REVISED NOTE.	11-14-60					
G	CHANGED PART NOS AS PER REVISED NOTE "28C5015-14 WAS -13	12-1-60					
H	#4D4-7E-8 #4D4B-AD4 ADDED						
J	#4D4A-AD ADDED	4-21-61					
K	ADDED 38C5014-044 WAS 38C5014-043	4-21-61					
L	REVISED #4D1 PANEL "BASE". SPACER ARC 5018 IN #4D4 ADDED	6-21-61					

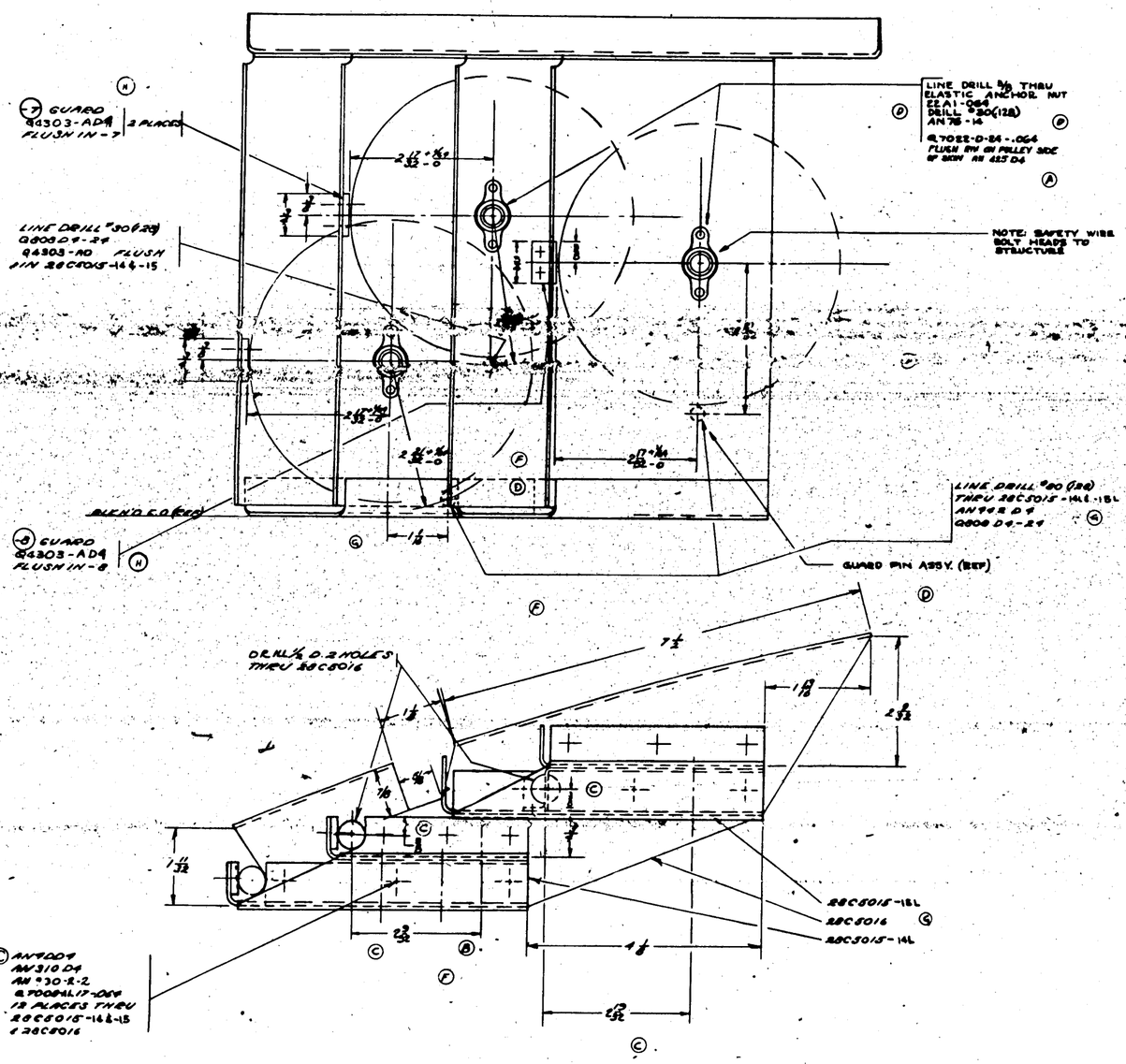
E.O. 17188
E.O. 22502
E.O. 24476 A

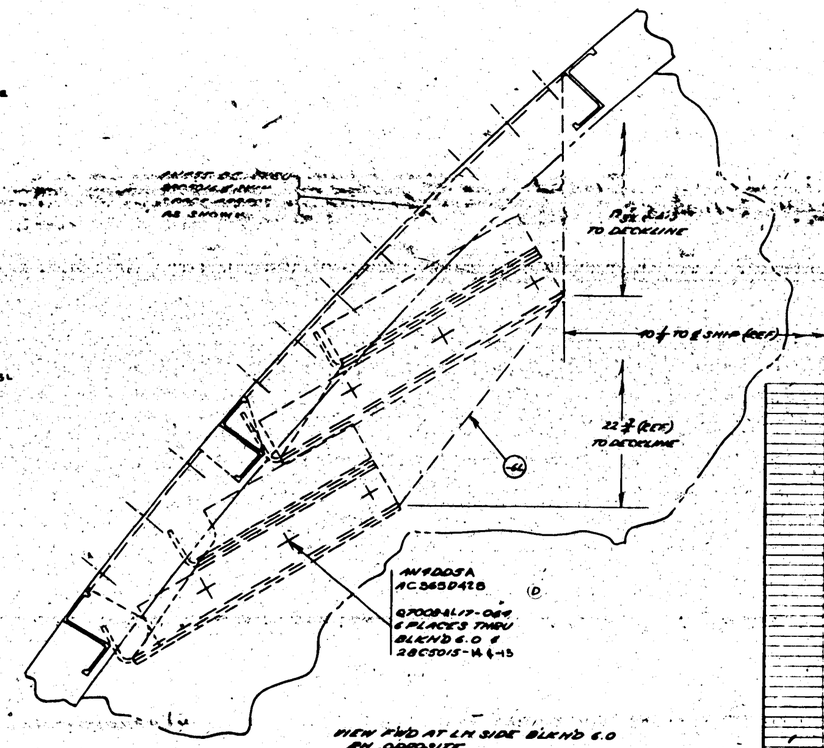
E.O. 28387 C

E.O. 28588
E.O. 30139

E.O. "B"

E.O. "K"





ELASTIC STOP NUT CORP

FINISH CODE	
Z	IRIDITE TREATMENT
P	P-17 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

C.9876

C.70496

NOTE:
FINISH -8 ZP

H 198

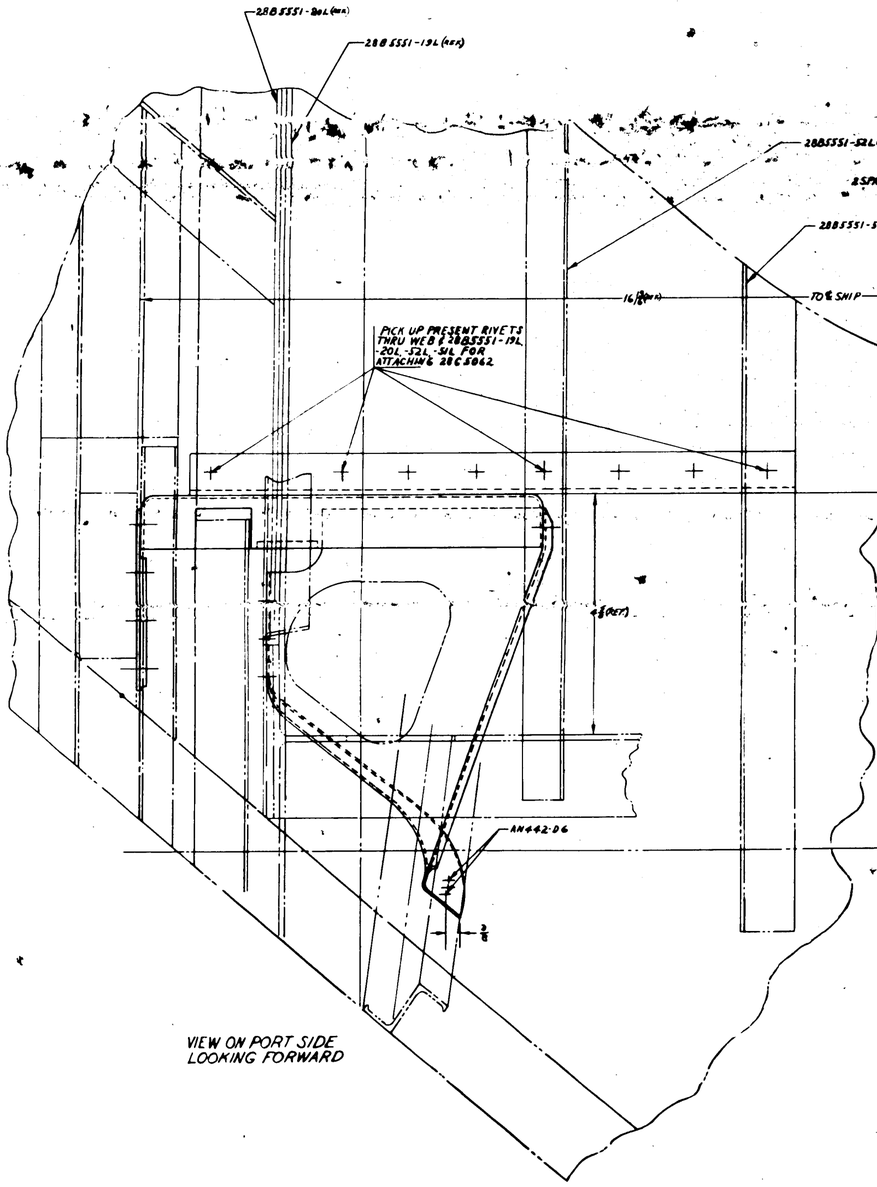
| | | | | | |

LET	ALTERATION	DATE	BY

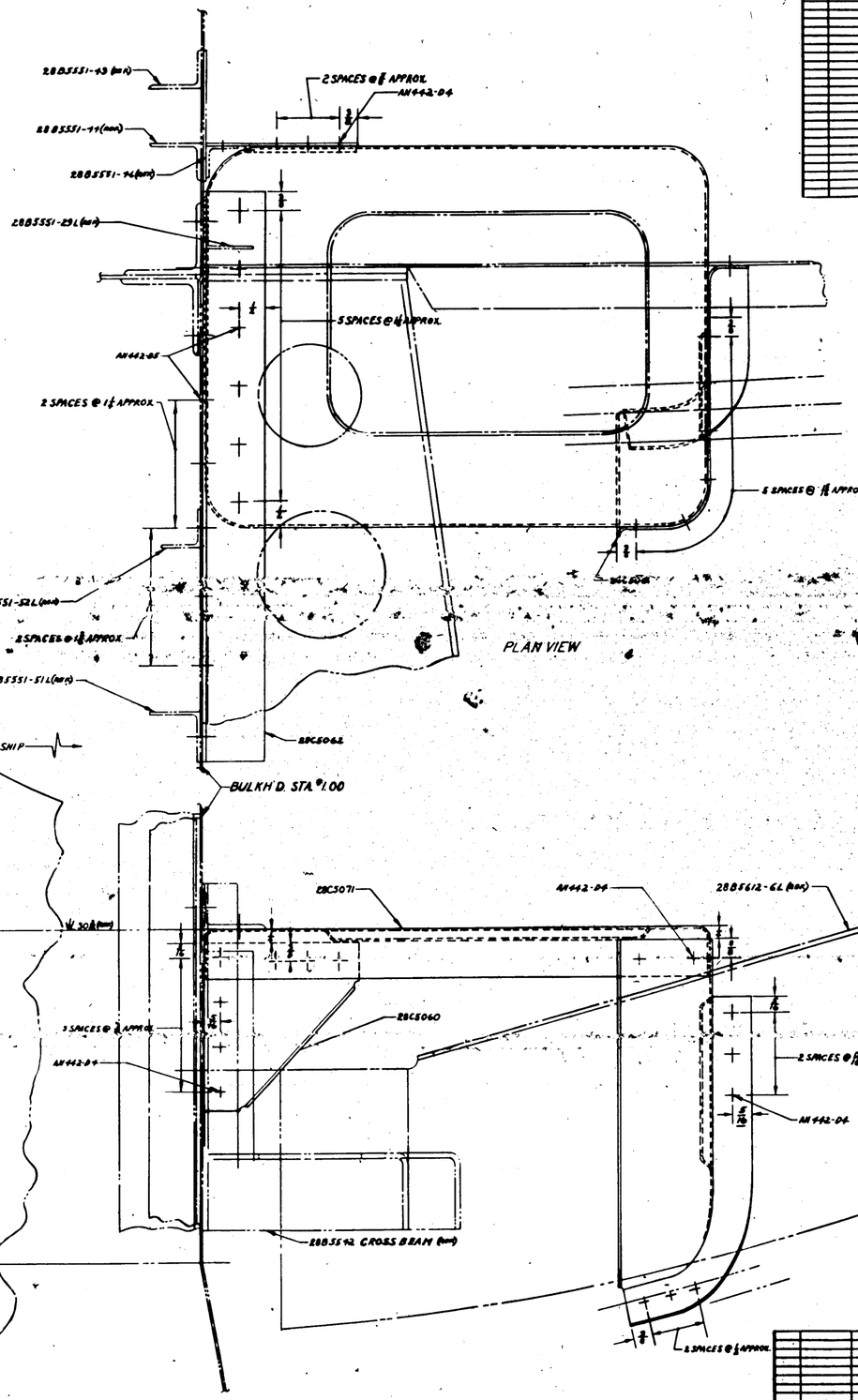
LET	ALTERATION	DATE	BY
	ADDED -7 SEE -8		
	ADDED TOOLING		
	ADDED NOTE "DRILL AND REAM AT ASSY WITH DETAIL CHANGES"		
	ADDED AT ASSY		
	ADDED AN526D1032-7		
	ADDED -D FOR REVISED ANGLE

LET	ALTERATIONS	DATE	BY	APP'D
	ADDED 1" & ANGLE, ADDED 1 HEAD REVISED			
	ADDED CHAMFER			
	ADDED 1/4" RADIUS			
	ADDED 1/4" RADIUS			
	ADDED 1/4" RADIUS

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



VIEW ON PORT SIDE
LOOKING FORWARD



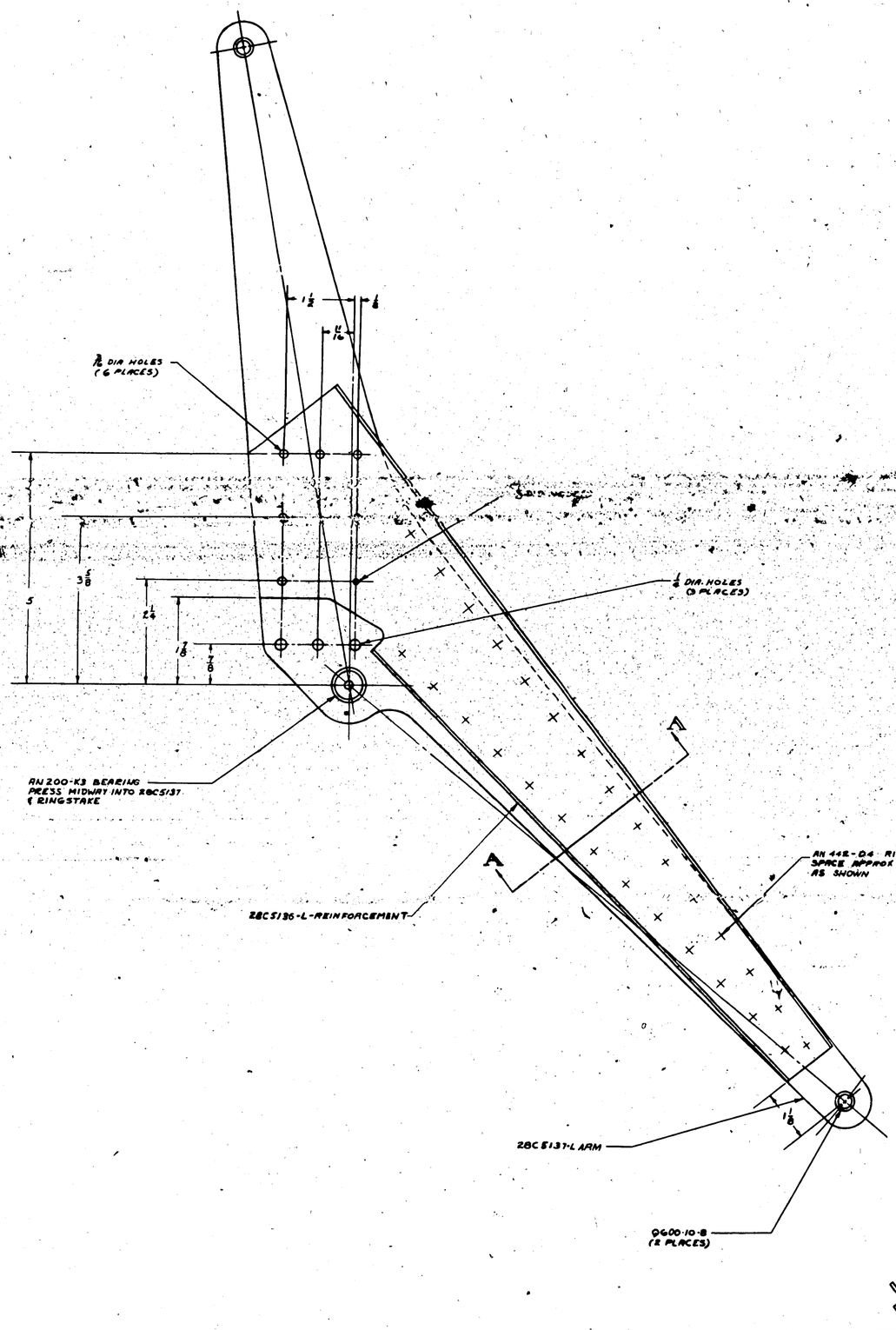
PLAN VIEW

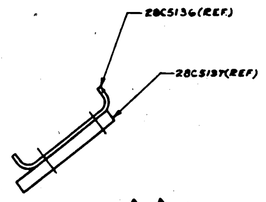
SIDE VIEW
LOOKING OUTBOARD
FORWARD

C-88476
ZE FUTURE
C-70496

| | | | | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY





SECTION AA
SCALE: 12"=1'0"

APPROVED FOR TOOLING BY
L. E. Salter
6-12-53

MCR252(1) & ON	-A	PRY-5A	28C5001
	-B	PRY-5B	28C5002
MCR 252(1)	-D	PRY-5	28C5003
	-E	PRY-5	28C5004

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
			PARTS LIST FOR ASSY.	-D		-2		-3	-4	-5
0600-10-8				2	2					
AN442-04 RIVETS AS REQ'D				AR	AR					
28C5137-R				1						
28C5137-L					1					
28C5136-L				1						
28C5136-R					1					

D-6

A.C.			LETTERS
DRAFT NONE	NONE		2-1-54
HEAT TREAT	FINISH	DRAFT	CHECK

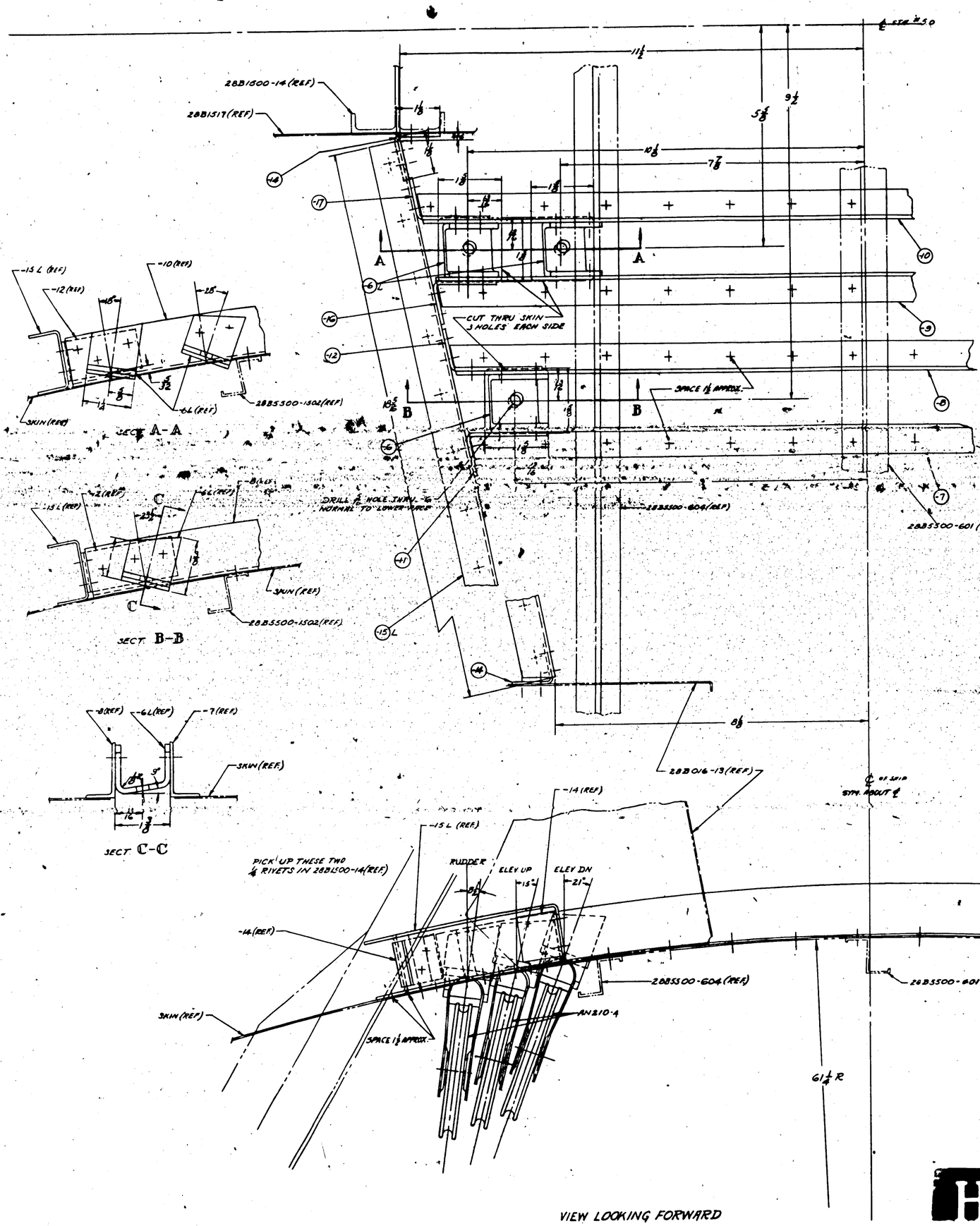
NAME: ARM - ASSEMBLY CONTROL YOKE

SIZE J | DWG. NO. 28C5138 | REV. 28C5138-R

H 202

R 28C5282

LET	ALTERATION	DATE	BY	LET	ALTERATION PHOTO-TRACED	INSP'D	DR



NOTES
INSTALLATION SYMETRICAL ABOUT ℄ OF SHIP
ALL BEND RADII 3/32 EXCEPT AS SHOWN.
ALL RIVETS AN442-BS EXCEPT AS SHOWN.

RUSH RELEASED WITH 'D' CHANGE 12-2-61

FINISH CODE	
Z	ZINC CHROMATE
P	NO PRIMER
AP	ALUMINIZED PRIMER
C	CORRODING PLATE

| | | |

LET	ALTERATION	DATE	BY
A	NEW DWG INCORPORATING [illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]

STA 85.0

28B5590-38 L (REF)
28B5590-65 (REF)
(E) (REF) FILLER
28B1819-6 (REF)
28C6022
A
A
B
B
C
C
5⅝
7⅞ (REF)
10⅝ (REF)
5 (REF)
CUT SKIN 3 HOLES
28C5769 ASSY
28B5500-601 (REF)
SNIP ℄ SYM

SEC. B-B

28C5769 ASSY (REF)
SKIN (REF)
28B5500-604 (REF)
AN 442 DS 2½ SPACING APPROX.

SEC. C-C

28C5769 ASSY (REF)
SKIN (REF)
28B5500-604 (REF)

SEC. A-A

(E) FILLER
28C6022 (REF.)
28B5590-65 (REF)
SKIN (REF)
PICK UP 2 RIVETS
28B1819-6 (REF.)
28B5590-39 L (REF.)

PLAN VIEW

28B016-13
STA 5.25
28B5500-604 (REF.)
FWD

VIEW LOOKING FWD.

28B016-11 (REF)
28C6023-L
28B016-13
28C5769 ASSY (REF)
RUDDER
28B5500-604 (REF.)
28B5500-601 (REF.)
SPACE ½ APPROX.
Q4004-0-1 (5 REQ) (D)
AN 380-2-3 (2 REQ PER BRACKET)
AN 210-4
SNIP ℄ SYM

ALL RIVETS AN 442 DS EXCEPT AS SHOWN

FINISH C
Z ANODIC TREATED
F P.D FINISH
AD ALUMINIZED RUBBER
C CADMIUM PLATE

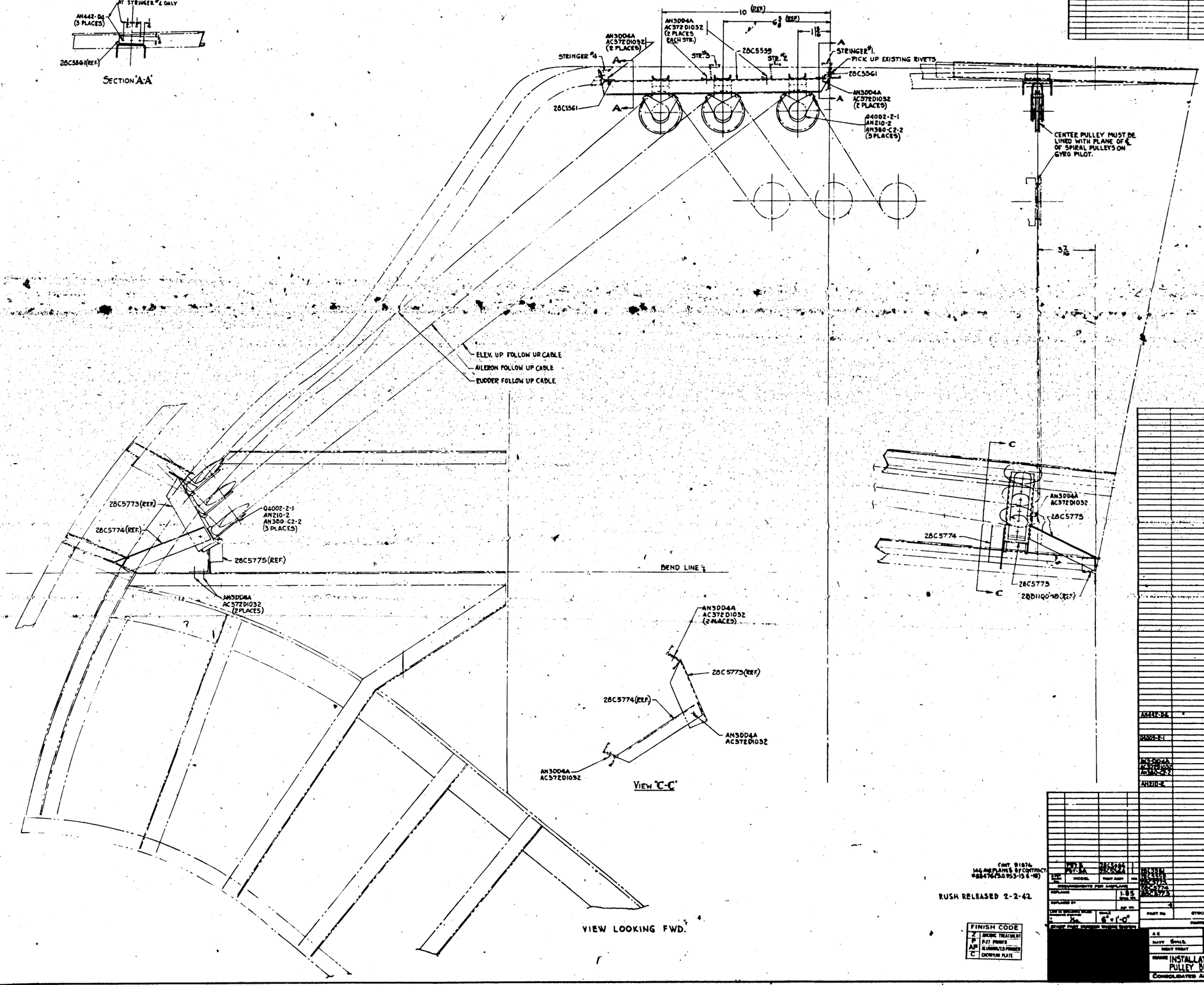
RUN RELEASED 12-1-41

ALL AIRPLANES
© AIRPLANE NOS 8 ON
NOS 458 & ON

| | | |

LET	ALTERATION	DATE	BY
A	REMOVED 28C5773 & INSTEADMED AND ADDED 28C5774, 28C5776, 28C5778 & INSTEADMED TO FACE OF DWG. & NOW REQUIRED SEE "B" FOOT PACE OF DWG. 28C5561 (REF.) WAS (REQ.)	5-15-42	[illegible]

SECTION 'A-A'



PART No.	STOCK	MATERIAL	SPEC.	LH REQ'D -0	RH REQ'D -0	LH REQ'D -2	RH REQ'D -2	LH REQ'D -3	RH REQ'D -3	LH REQ'D -4	RH REQ'D -4
AN442-B4											
A4002-2-1				6							
AN3D04A AC372D1032				2							
AN380-C2-2				6							
AN210-2				6							
28C5559								1			
28C5561										1	
28C5774						1					
28C5773					1						

PARTS LIST PER ASSY.

Cont. 91076
146 AIRPLANES OF CONTRACT
#88476-150-953-15 (-48)

RUSH RELEASED 2-2-42

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AM	ALUMINUM PRIMER
C	CADMIUM PLATE

A-C			Steven Pisco	George		
NAVY BUREAU	Z-P.		1-27-42	1-31-42		
NAVY WEIGHT	FINISH		DRAFT	DESIGN	STRESS	CHIEF DRAFT.

INSTALLATION - FOLLOW-UP CABLE PULLEY BRACKETS - BULKHEAD #1

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | 28C5560

H-205

LET	ALTERATION	DATE	BY
A	PER ECN 1478 AND 2 PARTS ACCTS OMITTED & PLACED WITH 4 PLACES.		
B	PER ECN 2533-1 & 2 PARTS OMITTED		

VIEW LOOKING INB'D

TO INSTALL LOCK:-
RAISE FWD END OF LOCK & INSERT AFT END IN SOCKET. LOWER FWD END, MOVING YOKE AFT TO NEUTRAL POSITION. DROP PINS INTO HOLES IN YOKE. STOW LOCK TO PILOTS SEAT SUPPORT.

TO RELEASE LOCK:-
RELEASE STRAP. RAISE FWD END OF LOCK FROM YOKE. MOVE YOKE FWD TO CLEAR. DISENGAGE AFT END OF LOCK FROM SOCKET.

VIEW LOOKING FWD

H 206

PART NO.	STOCK	MATERIAL	SPEC.	LT	NO	LT	NO	LT	NO	LT	NO	LT	NO
				PARTS		PARTS		PARTS		PARTS		PARTS	
	PARTS LIST FOR ASSY.			-0		-2		-3		-4		-6	

A9		9 Feb 44	
NAVY —	—	FWDC	
HEAT TREAT	FINISH	DRAWN	CHECKED

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

INSTR. - CONTROLS - AIL. & ELEV. YOKE LOCK

SIZE J — 28C5570

LET.	ALTERATION	DATE	BY
AA	REDESIGNED BOLT, SPRING, LOCK & WASHER	8-29-42	
	DELETED NOTE "C-E" WITH BRACKET, BRACE, BRACKET, BRACE, AN960-516 & AN365-1032		
	REPLACING 28C1183-3 & 28C1183-4 BRACKET, AN960-416 & AN365-1032 WASHER PART NOT ABLE TO USE		
AB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-30-42	
AC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-6-42	
AD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-14-42	
AE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-20-42	
AF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-27-42	
AG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-3-42	
AH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-10-42	
AJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-17-42	
AK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-24-42	
AL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-1-42	
AM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-8-42	
AN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-15-42	
AP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-22-42	
AQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-29-42	
AR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-5-43	
AS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-12-43	
AT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-19-43	
AU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-26-43	
AV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-2-43	
AW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-9-43	
AX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-16-43	
AY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-23-43	
AZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-2-43	
BA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-9-43	
BB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-16-43	
BC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-23-43	
BD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-30-43	
BE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-6-43	
BF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-13-43	
BG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-20-43	
BH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-27-43	
BJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-4-43	
BK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-11-43	
BL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-18-43	
BM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-25-43	
BN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-1-43	
BP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-8-43	
BQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-15-43	
BR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-22-43	
BS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-29-43	
BT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-6-43	
BU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-13-43	
BV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-20-43	
BW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-27-43	
BX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-3-43	
BY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-10-43	
BZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-17-43	
CA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-24-43	
CB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-31-43	
CC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-7-43	
CD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-14-43	
CE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-21-43	
CF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-28-43	
CG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-5-43	
CH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-12-43	
CJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-19-43	
CK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-26-43	
CL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-2-43	
CM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-9-43	
CN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-16-43	
CP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-23-43	
CQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-30-43	
CR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-7-43	
CS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-14-43	
CT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-21-43	
CU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-28-43	
CV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-4-44	
CW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-11-44	
CX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-18-44	
CY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-25-44	
CZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-1-44	
DA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-8-44	
DB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-15-44	
DC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-22-44	
DD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-29-44	
DE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-7-44	
DF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-14-44	
DG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-21-44	
DH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-28-44	
DJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-4-44	
DK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-11-44	
DL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-18-44	
DM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-25-44	
DN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-2-44	
DP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-9-44	
DQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-16-44	
DR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-23-44	
DS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-30-44	
DT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-6-44	
DU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-13-44	
DV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-20-44	
DW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-27-44	
DX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-4-44	
DY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-11-44	
DZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-18-44	
EA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-25-44	
EB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-1-44	
EC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-8-44	
ED	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-15-44	
EE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-22-44	
EF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-29-44	
EG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-5-44	
EH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-12-44	
EJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-19-44	
EK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-26-44	
EL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-3-44	
EM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-10-44	
EN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-17-44	
EP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-24-44	
EQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-31-44	
ER	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-7-44	
ES	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-14-44	
ET	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-21-44	
EU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-28-44	
EV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-5-44	
EW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-12-44	
EX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-19-44	
EY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-26-44	
EZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-2-45	
FA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-9-45	
FB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-16-45	
FC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-23-45	
FD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-30-45	
FE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-6-45	
FF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-13-45	
FG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-20-45	
FH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-27-45	
FJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-6-45	
FK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-13-45	
FL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-20-45	
FM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-27-45	
FN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-3-45	
FP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-10-45	
FQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-17-45	
FR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-24-45	
FS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-1-45	
FT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-8-45	
FU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-15-45	
FV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-22-45	
FW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-29-45	
FX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-5-45	
FY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-12-45	
FZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-19-45	
GA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-26-45	
GB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-3-45	
GC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-10-45	
GD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-17-45	
GE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-24-45	
GF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-31-45	
GG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-7-45	
GH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-14-45	
GJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-21-45	
GK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-28-45	
GL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-4-45	
GM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-11-45	
GN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-18-45	
GP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-25-45	
GQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-2-45	
GR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-9-45	
GS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-16-45	
GT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-23-45	
GU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-30-45	
GV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-6-45	
GW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-13-45	
GX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-20-45	
GY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-27-45	
GZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-4-45	
HA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-11-45	
HB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-18-45	
HC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-25-45	
HD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-1-46	
HE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-8-46	
HF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-15-46	
HG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-22-46	
HH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-29-46	
HJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-5-46	
HK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-12-46	
HL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-19-46	
HM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-26-46	
HN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-5-46	
HP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-12-46	
HQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-19-46	
HR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-26-46	
HS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-2-46	
HT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-9-46	
HU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-16-46	
HV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-23-46	
HW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-30-46	
HX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-7-46	
HY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-14-46	
HZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-21-46	
JA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-28-46	
JB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-4-46	
JC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-11-46	
JD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-18-46	
JE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-25-46	
JF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-2-46	
JG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-9-46	
JH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-16-46	
JJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-23-46	
JK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	7-30-46	
JL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-6-46	
JM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-13-46	
JN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-20-46	
JP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	8-27-46	
JQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-3-46	
JR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-10-46	
JS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-17-46	
JT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	9-24-46	
JU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-1-46	
JV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-8-46	
JW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-15-46	
JX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-22-46	
JY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	10-29-46	
JZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-5-46	
KA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-12-46	
KB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-19-46	
KC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	11-26-46	
KD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-3-46	
KE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-10-46	
KF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-17-46	
KG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-24-46	
KH	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	12-31-46	
KJ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-7-47	
KK	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-14-47	
KL	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-21-47	
KM	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	1-28-47	
KN	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-4-47	
KP	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-11-47	
KQ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-18-47	
KR	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	2-25-47	
KS	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-4-47	
KT	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-11-47	
KU	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-18-47	
KV	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	3-25-47	
KW	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-1-47	
KX	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-8-47	
KY	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-15-47	
KZ	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-22-47	
LA	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	4-29-47	
LB	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-6-47	
LC	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-13-47	
LD	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-20-47	
LE	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	5-27-47	
LF	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-3-47	
LG	ON PART # 28C5705-L ADDED NOTE "(A) & (B) 28C5705-3(2) WERE 28C5705-2"	6-10-

LET	ALTERATION	DATE	BY
K	ADD RIVETED SPLICE & REVISED P.I.'S 2B45314-5, -7, -9 & DELETED ALL PRINT INDICATED ON 2B45314-3 & -11 PER	5-15-41	[illegible]
L	ADDED GROMMETS TO WIRE HOLES IN STRUCTURE PER 2B45314-3 SHEET 2 ITEM 2B1000-3, 2B1000-4 SHEET 1 ITEM AND DELETED ITEM 2B1000-5	6-25-41	[illegible]
C	(UNDATED CHG NUMBER) ADDED NO WT. CHG.	7-8-41	[illegible]
B	ADDED 2B45312 SUB. (2B45312-6 & -7) & 2B45313-9 & -11 NO WT. CHG.	7-8-41	[illegible]

LET	ALTERATION	DATE	BY

60-19
60-20
28-SAND

EQUIVALENT

STA 5.0 (REF)

2B81000-602 (REF)

2B81000-604 (REF)

2B81000-601 (REF)

℄ AIRPLANE (REF)

2BC5757-L

AN210-4A PULLEY
AN24-16 BOLT
AN320-4 NUT
AN960-416
AN 380-C2-2
2 PLACES

AN442-D3 3 PLACES
℄ MAL EDGE DISTANCE

2BC5754-6L

2BC5754-8L

4 (REF) SEE 2BC4032

5/16 11/32

STRINGER ATTACHMENT
AN 3-4A BOLT
AC365-1032 NUT

8 1/16 (REF) SEE 2BC4032

4 (REF)

3 1/4 (REF)

2BC5756-L
2BC5756-R

2BC5754-7

AN3-4A BOLT
AC365-1032 NUT
AN960-416 WASHER
10 PLACES

2BC5765-7

AN210-4A PULLEY
AN24-16 BOLT
AN320-4 NUT
AN960-416
AN 380-C2-2
ONE PLACE

2BC5755-8L

NOTE
ALL RIVETS AN442-D4 EXCEPT AS NOTED
MIN. EDGE DISTANCE (4)
SPACE RIVETS APPROX AS SHOWN

AIRPLANE (REF)

9 5/32

8 5/32

7 1/2

RUDDER

ELEV. UP. 25°

ELEV. DN. 21°

DECK LINE (REF)

STA 5.0

DECK LINE (REF)

ELEV DN
ELEV UP
RUDDER

FORWARD

VIEW LOOKING FORWARD - PORT SIDE

#1 ONLY
HULLS #284 TO 300 INCL. #3106 #3114

PART NO.	STOCK	MATERIAL	SPEC	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
				-0		-2		-4	
						-3		-5	

PARTS LIST PER ASSY

A.C. —
SPEC NONE
HEAT TREAT
ZAP
FINISH
4-15-41 DRAFT
CHECK
LAYOUT
SEC
APPROVED

NAME INSTALLATION-CONTROLS
SURFACE CONT. BRACKETS-STA 5.0
CONSOLIDATED AIRCRAFT CORP.

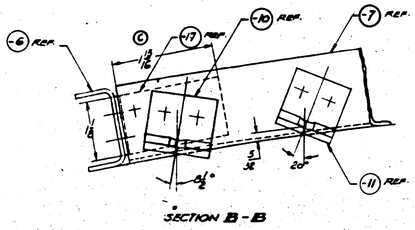
SIZE J
DWG NO. 28C5753

H-208

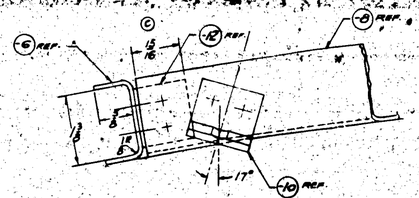
LET	ALTERATION	DATE	BY
A	[illegible] INCORPORATING [illegible]		
B	[illegible]		
C	[illegible]		
D	[illegible]		

E.O.C.# 84188

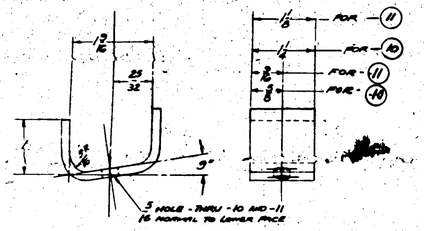
E.O. 818788



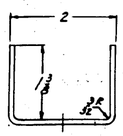
SECTION B-B



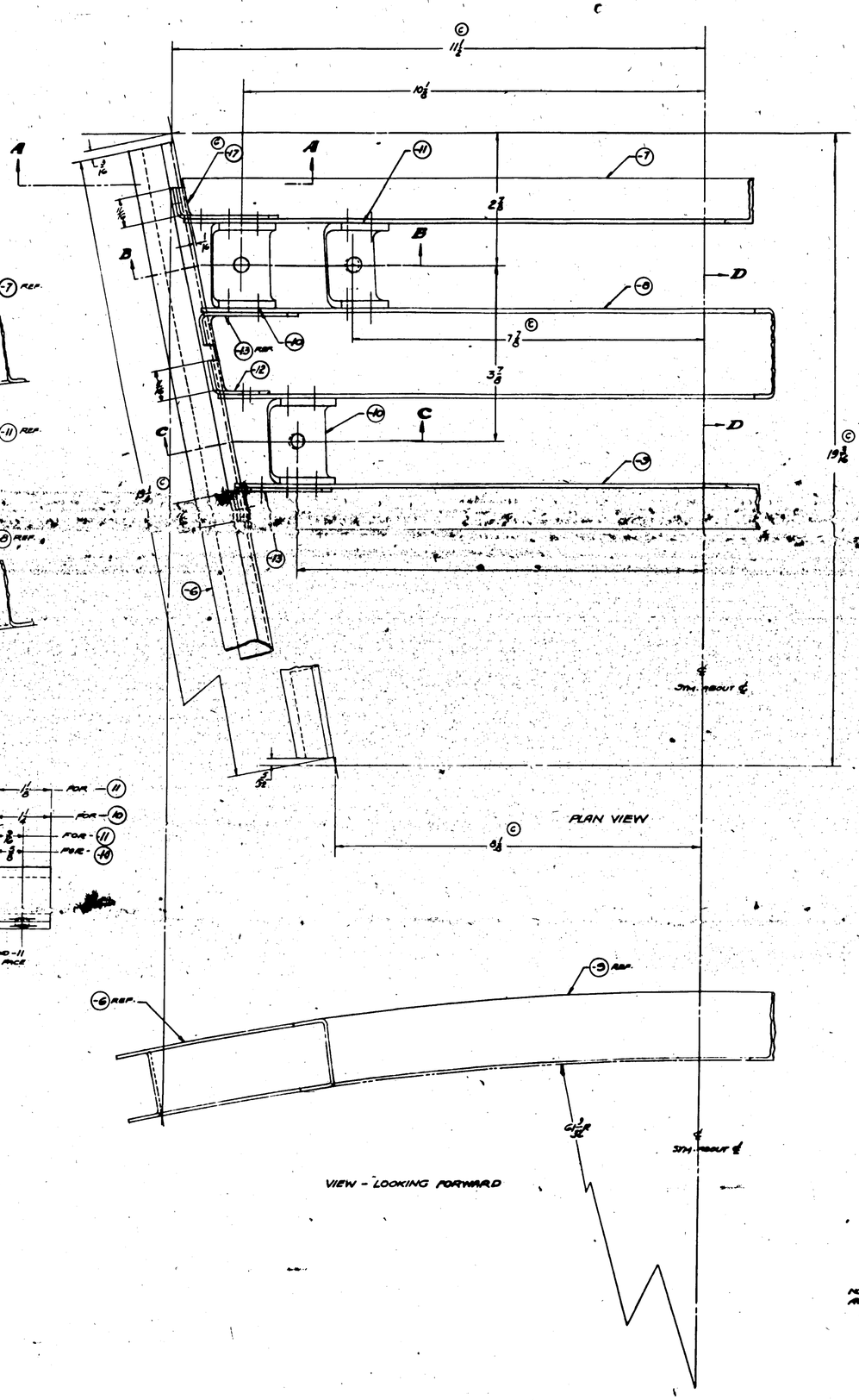
SECTION C-C



DETAIL OF -10 & -11



SECTION D-D



FINISH	
Z	ANODIC TREATED
P	P-D FINISH
AP	ALUMINIZED PAINT
C	CADMIUM PL

PLAN RELEASED 11-21-41

ALL AIRPLANES
ALL FUTURE SHIPS
* 41-B AIRPLANE & ON

NOTE:
ALL RIVETS TO BE AN442 D-5

PART NO	STOCK	MATERIAL	SPEC	-1 REQ	-2 REQ	-3 REQ	-4 REQ	-5 REQ
				-0	-2	-3	-4	-5

A-C			
PART NO.	NONE	ZAP	
HEAT TREAT		FINISH	

NAME ERECTG.-ASSEMBLY - CONTROLS-
STA. 5.0 SURFACE - CONTROLS.

CONSOLIDATED AIRCRAFT CORP.

SPF	HAND
SIZE J	28C5769

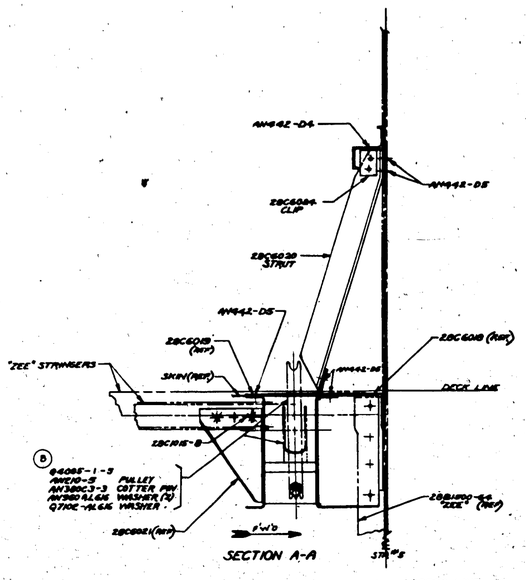
H-209

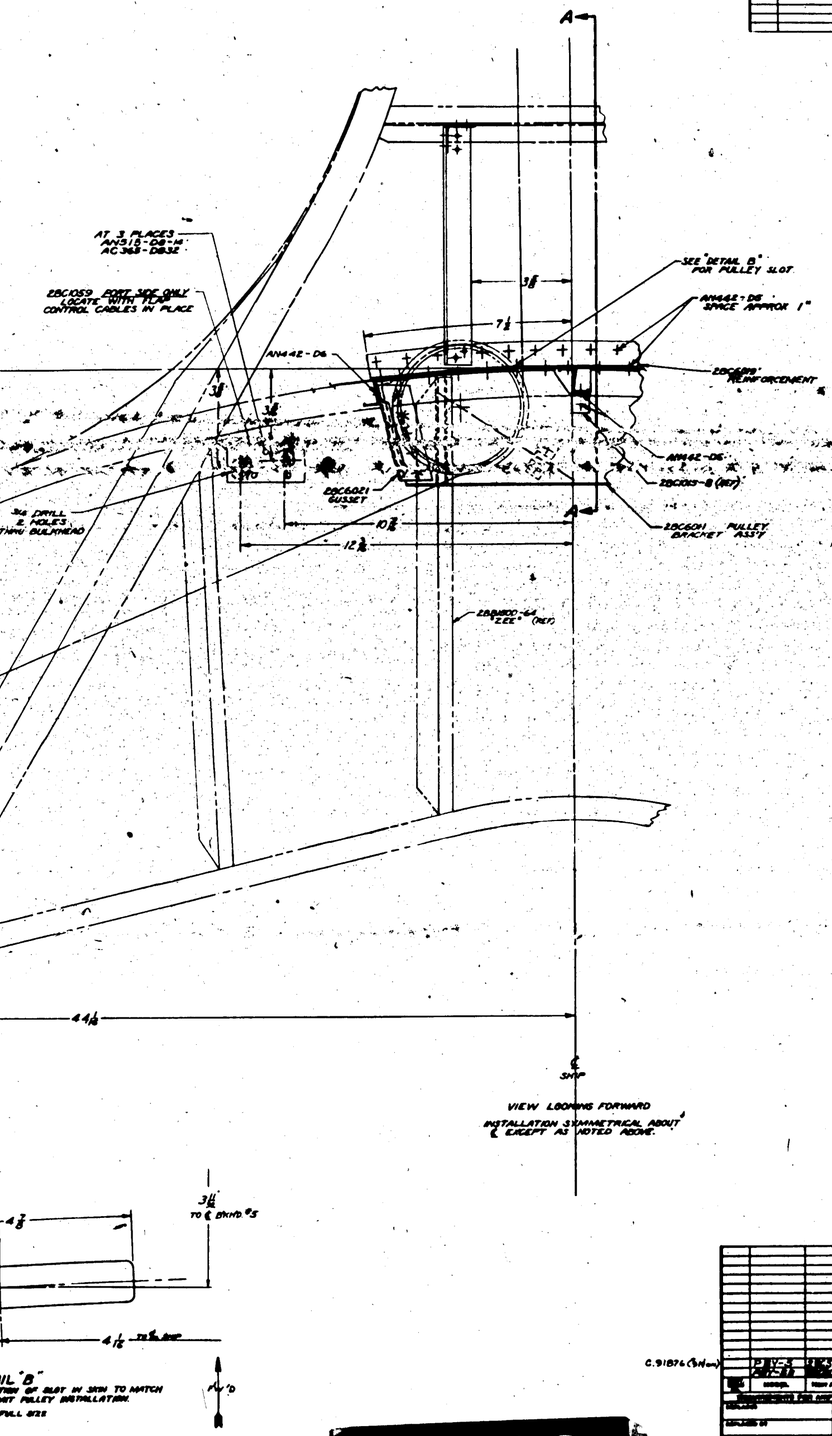
LET	ALTERATION	DATE	BY

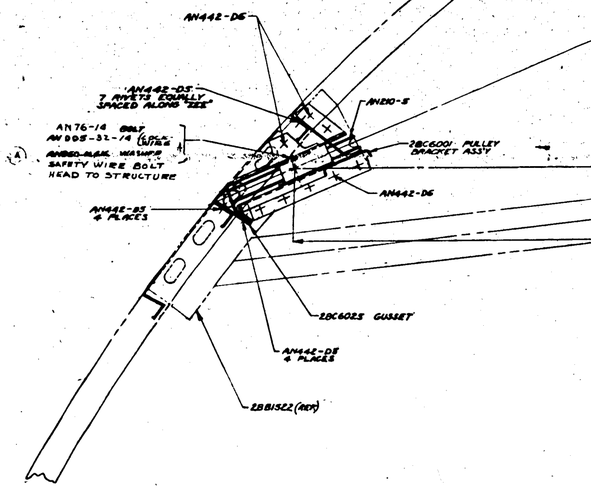
LET	ALTERATION	DATE	BY
A	AN76-14 REVISED AN66-8 TO AN66-8L-14 AND AN66-8L-14 TO AN66-6 REVISED QUAN. AS REQUIRED. ADDED "SAFETY WIRE BOLT HEAD TO STRUCTURE" TO ITEM 4. ADDED "ALTERATION A" TO ITEM 5. 1/8" TO 5/16" HRA INV. CHG.	9-14-51	Barth
B	CHGD E-1-5 TO (2) #5 PULCO RIVETS. ADDED SCALE AS REQUIRED. ITEM 5 TO ITEM 6.	9-14-51	Barth

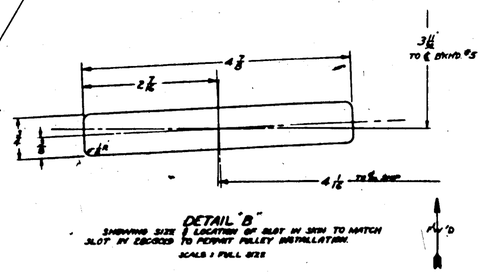
CONFIDENTIAL

4.4.488906









DETAIL "B"
SHOWING SIZE & LOCATION OF SLOT IN SKIN TO MATCH SLOT IN 28C6059 TO PERMIT PULLEY INSTALLATION.
SCALE 1 FULL SIZE

C.91876 (3 Mem)

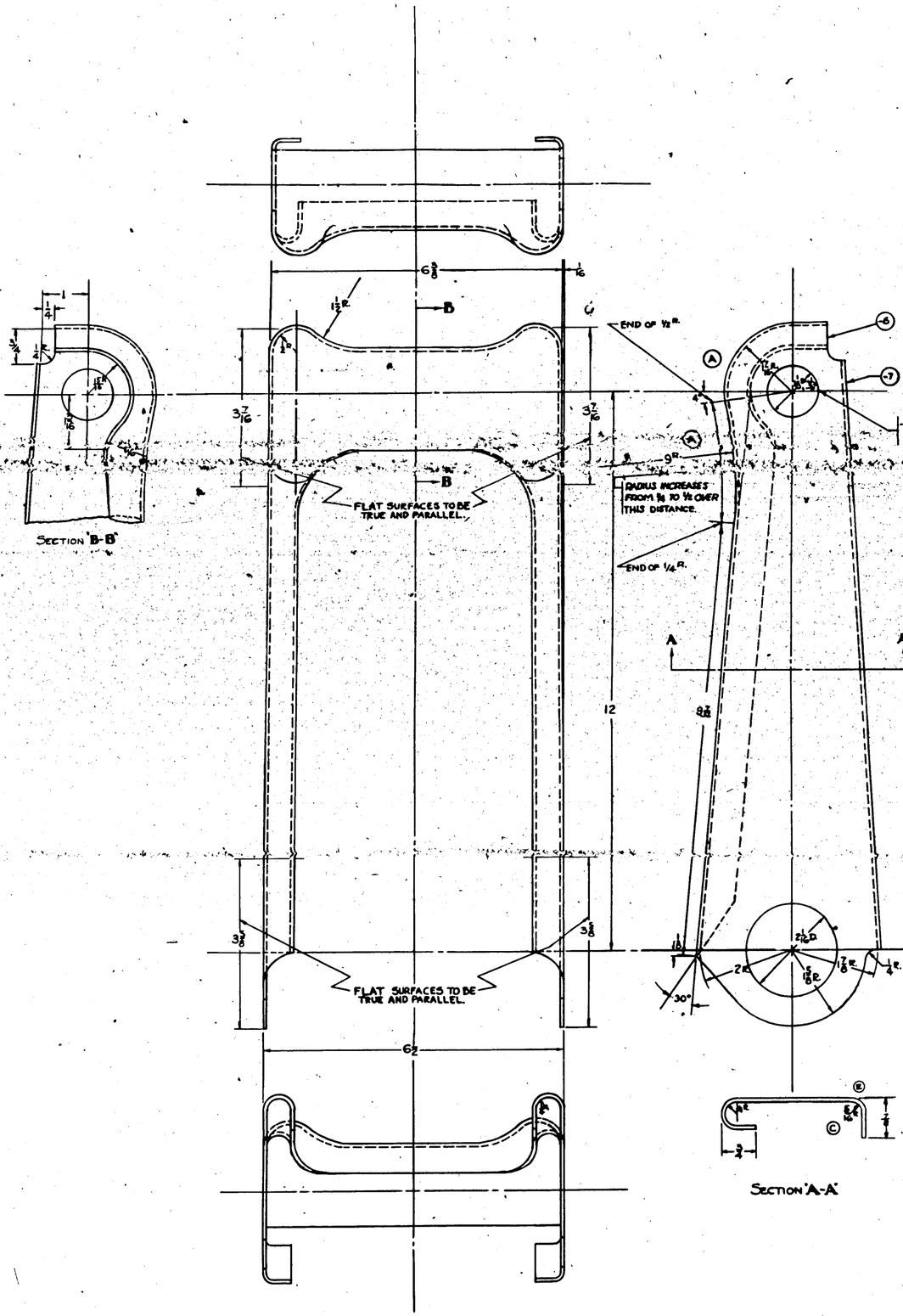
H 210

PARTS LIST PER ASSY.										
PART NO.	STOCK	MATERIAL	SPEC.	LET	QUAN	LET	QUAN	LET	QUAN	LET	QUAN
					-0		-2		-4		-6
AS				AIRCRAFT							
UNIT NONE											
HEAT TREAT	FINISH			DRAFT	CHECK	ENGINEER	DEPT	APPROVAL	DATE		
NAME INSTALLATION CONTROLS - BLKHD #5 - AILERON PULLEY BRACKET.				CODE IDENT. NO.							
				SIZE J	DWG. NO. 28C6014						
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.				SCALE		SHEET					

B

LET	ALTERATION	DATE	BY
A	INCREASE R3 TO 11/16" OVER UPPER RAD OF PATH. CENTER LT. RAD. VERTICAL TO -6 EXCEPT HOLE ELIMINATED.	8-6-42	RWB
B	ADD DIA CALLOUTS WHERE CHANGE OF RADII AT LOWER RADIUS & TOP OF CENTER.	9-16-42	RWB
C	CHANGE DIM 1/16 TO 1/8	9-22-42	RWB
D	ADDED DETAIL A. W.T. CHG. NOTE	9-22-42	RWB
E	SEC. A-A R WAS 1/2 R. SHOWN 1/2 R.	9-22-42	RWB
F	SEC A-A 1/4 WAS 1/8 W.T. CHG.	9-22-42	RWB

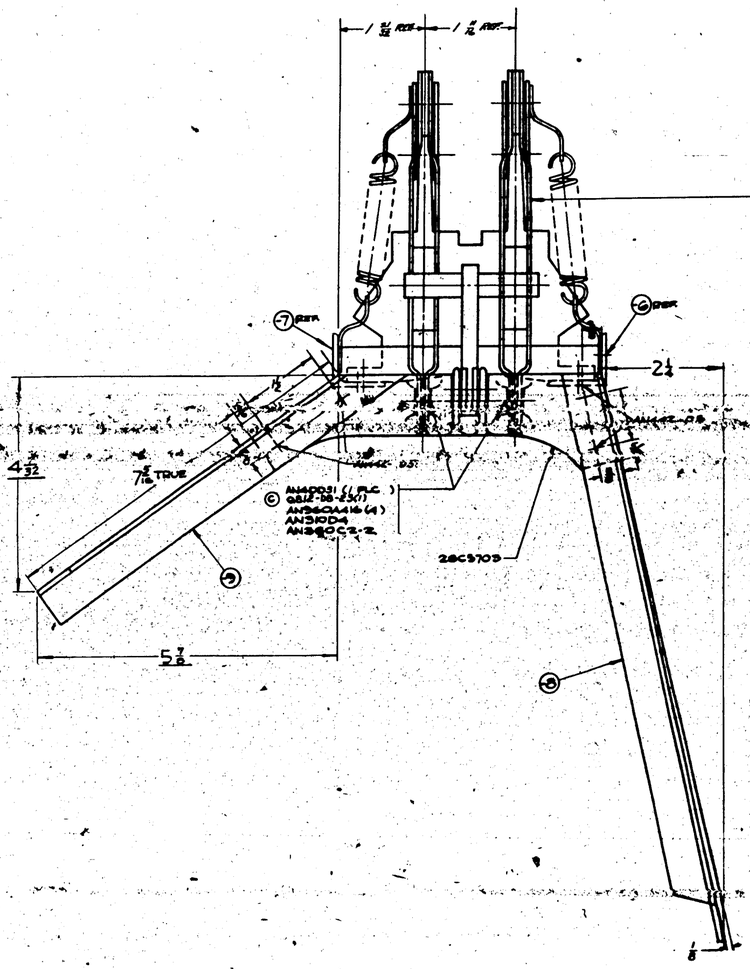
SO#23283
SO A 90687
SO. A 90611

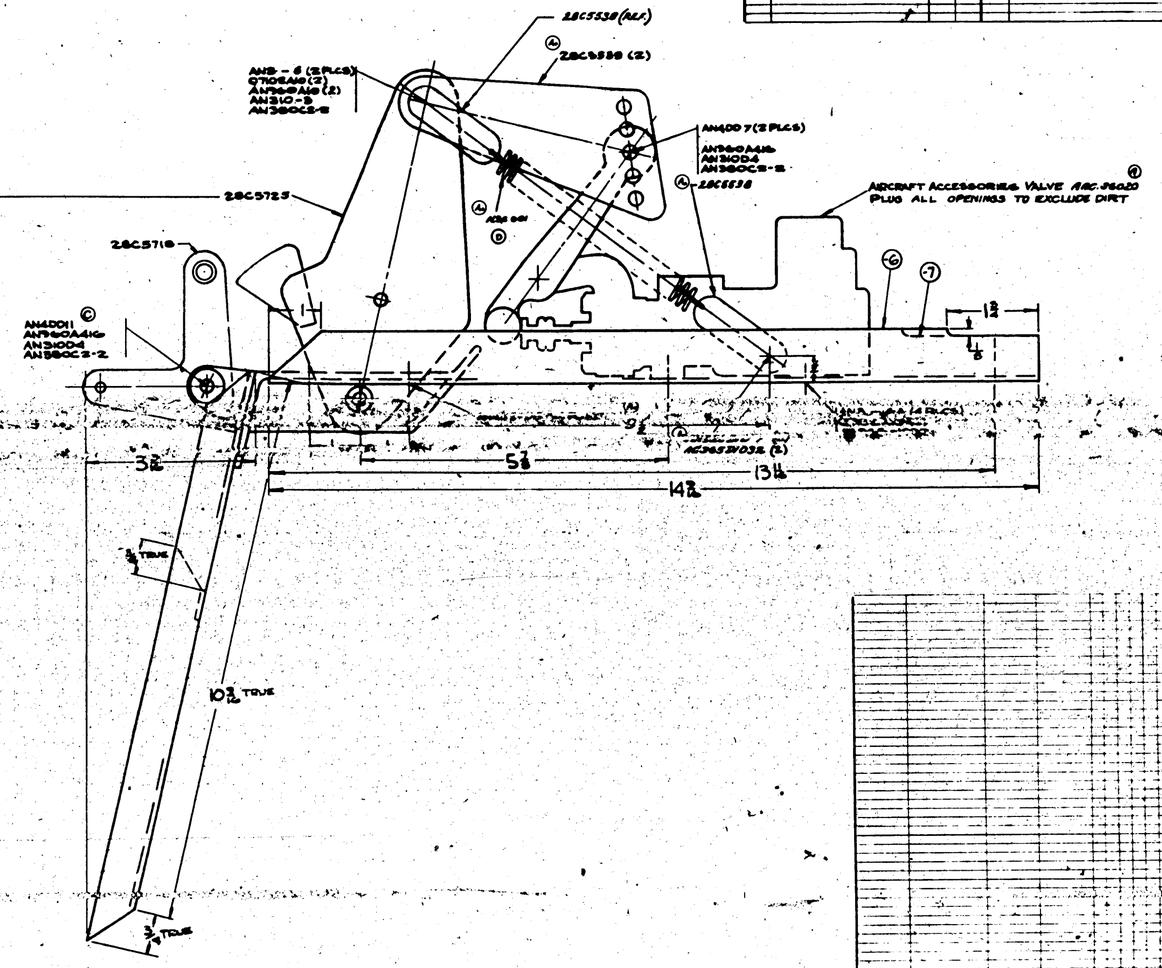


| | | |

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
	REC. MADE ADDL CHGS.		
C			
B			
A			





MAT'L NOTES:
1 - 6 (-7 MAY BE MADE FROM
A. Y-2 A18T X 1 1/4 W, OR
B. EXTR. K78 PK 1 1/4 W, SPEC. 46A9 COND. T
2 - 8 MAY BE MADE FROM
A. Y-2-A29T X 1 1/4 W, OR
B. K78C X 1 1/8, SPEC. 46A9 COND. T (EXTR.)
3 - 9 MAY BE MADE FROM
A. Y-2-A29T X 5/8, OR
B. EXTR. K78C X 5/8, SPEC. 46A9 COND. T

Finish Code:
X. Anodize
P. Zinc Primer
AP. Aluminized Primer

AIRCRAFT ACCESSORIES BRAKE VALVE AAC.36020 H&C.901

| | | |

LET	ALTERATION	DATE	BY
A	INCREASED A DIM. TO ½ B OVER HOLE AND OR SHIFT CENTER-O ASSY	6-10-42	[illegible]
B	ADDED CALCULATED HEIGHT DIMENSION (NOT TO BE MADE) OLE #DIM. BACK OF DWG AT UPPER END OF PART	6-25-42	[illegible]
	CHANGED RADIUS AT CABLE GROOVE & LUG END ANGLE (NOT TO BE MADE)		
C	ADDED DIM "APPROX" (2 PLACES) ADDED NOTE "SEAT---EQUIV" ADDED NOTE "AN442-DG-3 HOLES ALTERNATE WITH 3 RIVET HOLES" (NOT TO BE MADE)		
D	REVISED AN442-D4 TO AN960-D4	2-17-43	[illegible]
E	REVISED AN442-D4 (10 PLACES) EQUALLY SPACED, WAS AN442-D4 (10 PLACES EQUALLY SPACED FLUSH ON OUTSIDE. (NOT TO BE MADE)	3-15-43	[illegible]

Ref A-34647

Ref B 22024

Section B-B

Section C-C

Section A-A

Rush Released 3-27-42

FINISH
Z-ANODIC TREATMENT
P-PR-27-PRIMER
GP-GREEN PRIME

NOTE:-
28C6030-L IS INTERCHANGABLE WITH 28C2056-2
28C6030-R " " " 28C2056-3
28C6030-2L " " " 28C6056-9
28C6030-2R " " " 28C6056-1

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET.	ALTERATION	DATE	BY
A-C	PHOTO TRACED	6-30-43	
A-K	NOTE "STENCIL - - - ONLY" WAS "OUTBOARD SIDE OF RH NACELLE ONLY" NO WT CHG.	8-31-43	
AL	ADDED NOTE "STENCIL - - - LETTERS" NO WT CHG.	9-30-43	
B-K	SOLAR #1-2646 MFT 2B3 3002 SOLAR #1-1957 MFG 2B3 3010 NO WT. CHG.	7-10-43	
AM	REPLACED SOLAR #1-2646 WITH 2BDJ3001 & SOLAR #1787 WITH 2BDJ3010. NO WT. CHG.	8-4-43	

NOTE: 2B3 3001 & 2B3 3010 ARE INTERCHANGEABLE

VIEW J-J
LOOKING FWD.

PICK UP SCREWS IN PREHEATER SPLICE FOR CHANNELON R.H. SIDE

29P003 (REF.) PREHEATER FOR -0 ASS'Y. ONLY.
28P5003 (REF.) PREHEATER FOR -2,-3,-4,-5,-50,-60,-70,&-80 ASS'YS

28D3006 PANEL

DZUS SPRING

28-0-3039 (REF.)

SECTION H-H
SCALE 12"=1'-0"

TOP VIEW

TRIM 28D3008-2 (REF.) HINGE, AND 29P003-11 (REF.) ANGLE, ON ASSEMBLY TO CLEAR ENGINE MOUNT

28D3008 (REF.)
AN442D4 RIVET
29P003 (REF.)

1/8 SPACING BETWEEN RIVETS

SECTION F-F
SCALE 12"=1'-0"

SECTION A-A
SCALE 12"=1'-0"

6 1/2 TO ℄ HINGE (APPROX.) INBOARD SIDE BOTH NACELLES
4 1/2 TO ℄ HINGE (APPROX.) OUTBOARD SIDE BOTH NACELLES

(M) (N) 28D3010 SPRING
28D3009 FITTING
AN960-10 WASHER
LOCATE ON ASSEMBLY TO SUIT SIDE PANEL IN OPEN POSITION

AN425D6 RIVET
28D3008 (REF.) DRILL 3/16 DIA. TWO PLACES TO SUIT 28D3010 (REF.) SPRING
1/8 SLOT (SEE SEC. C-C')
AN425D4 RIVET C'SK BOTH SIDES

(T) STOP (SEE DETAIL)

AN442-D3 RIVET

SECTION B-B
SCALE 12"=1'-0"
FOR -0 ASSEMBLY ONLY ADD PART C-6 FOR OTHER ASS'YS

DETAIL -7 STOP
SCALE 12"=1'-0"

DRILL 3/16 DIA. 2 HOLES

1"x1"x1/8" EXT. ANGLE, ALCOA 'K786 SPEC. 46A5 (24ST) COND'T FINISH Z-P-Z 6P

SECTION C-C
SCALE 12"=1'-0"

1/2 SLOT
28P3007 (REF.) FIREWALL
28D3008 (REF.)

SECTION D-D
SCALE 12"=1'-0"

11/16 (REF.)
28D3011 (REF.)
28D3008 (REF.)
11/16 (REF.)
1/16 MAX.
28D3007 (REF.)

ENGINE MOUNTING RING

SECTION J-J
NOT FOR -0 ASS'Y

28D2006 DOOR INSTALLATION
28D2006-1 R.H.
28D2006-50L ON -2,-3,-4,-5-50,-60,70,&80 ASS'YS
28D2006-50R ON -2,-3,-4-5 ASS'YS
28D2006-65 ON -50,-60,-70,&-80 ASS'YS

28D1049-17 HINGE PIN

INBOARD SIDE ONLY OF BOTH NACELLES -0 ASSY ONLY

OUTB'D SIDE L.H. NAC. INB'D SIDE R.H. NAC. ON -2,-3,-4-5-50 -60,-70&-80 ASS'YS

STARTER DOG PLATE RELEASE 30A1334

ACCESS TO ACTUATOR

STEP

BOTH SIDES OF BOTH NACELLES

STENCIL OUTB'D SIDE OF BOTH NACELLES (NAC # 33-10 NAC # 10-3010)

FRONT SPAR

28D3008 PANEL L.H.
28D3008-1 R.H.

-8 CHANNEL Y12A2GT

THRUST

CHORD LINE

DE-ICER DRAIN

28D1049-17 HINGE PIN

SIDE VIEW L.H. NACELLE

DETAIL K
SCALE 12"=1'-0"

29P3003 (REF.)
AN 3-6A
AC 365-1032
-8 (REF.)

STENCIL IN NON-SPECULAR INTERMEDIATE BLUE. OUTBOARD SIDE OF RH. NACELLE ONLY.

28D3007 PANEL
AN 510-10-7
AC 365-1032
-8 (REF.)
AC525-C10-8
28P5035 FIREWALL (REF.)

DETAIL L
SCALE 12"=1'-0"

28-0-2003 (REF.)
28D5020 (REF.)
OIL DRAIN
ENGINE HEATER

STENCIL IN NON-SPECULAR INTERMEDIATE BLUE 1/2" HIGH LETTERS.

BOTTOM VIEW

AN526-1032-8 C'SK ALIG 17 PLACES
28D5030 ON -2,-3&-70 ASS'Y
AN526-1032-10 97702-AL-10 4 PLACES
AN526-1032-10 AL 365-1032 97702-AL-10 18 PLACES
28D5032 ON -2-3&-70 ASS'Y 28D5706 ON -4&-60 ASS'Y
28D5031 ON -2,-3&-70 ASSEM. 28D5503 ON -4&-60 ASSEM

VIEW L-L
SCALE 3"=1'-0"

28D5015 PANEL
28D5015-2 FOR-80 ASS'Y
28D5014 (REF.)
28D5016 COVER ON -2,-5,-50,-70,&-80 ASS'YS
28D5503 L.H. NACELLE
28D5504 R.H. NACELLE
-3,-4,&-60 ASSEM.
28D5017 SPLIT COVER ON -2,-5-50-70& 80 ASS'YS
28D5017 L.H. NACELLE
28D5503 R.H. NACELLE
-3,-4&-60 ASS'YS
28D5020 SUPPORT
28D5018 DOOR 3D0449-2 PIN
28D5019 SUPPORT 28D5507 INSTEAD OF 28D5014 ON -4&-60 ASS'Y ONLY

VIEW J-J
SCALE: 1 1/2"=1'-0"
-2,-3,-4,-5-50,-60,-70,&-80 ASS'YS

-NOTE-
RIVET MARGINS ± MIN.
STENCILING TO BE 1/2" HIGH BLACK LETTERS ON OUTSIDE OF COWL ON BOTH NACELLES, EXCEPT AS NOTED.

-NOTE-
BOND IN ACCORDANCE WITH BSPEC "28E4037 — FOUNDS IN 1/2 SQUARES" REFER TO 28E4037

29P003 (REF.) PREHEATER
28P3007 (REF.) FIREWALL
ANS10-10-7 SCREW DRILL "10" (.193) C'S'K 82° x 1/2 DIA. 8 PLACES
28D3011 CHANNEL
SECTION G-G
SCALE 12"=1'-0"

AC525 C10-8 SCREW DRILL "10" (193) 4 PLACES TO SUIT 28D3006 (REF.)
28D3006 PANEL (REF.)
29P003 PREHEATER (REF.)

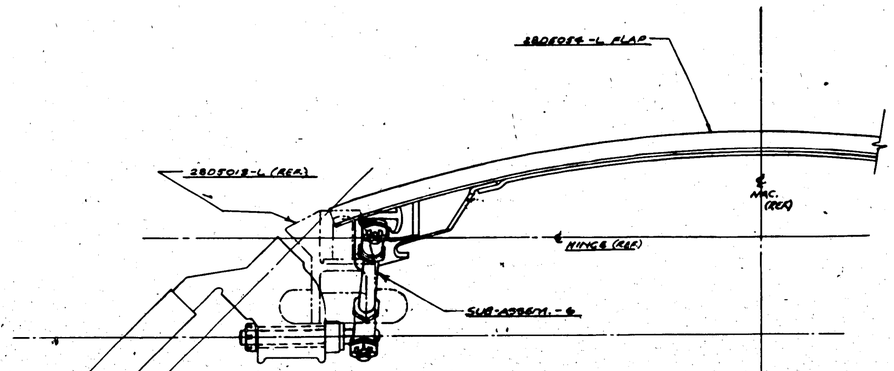
SECTION E-E
SCALE 12"=1'-0"

G.P.-GREEN PRIME

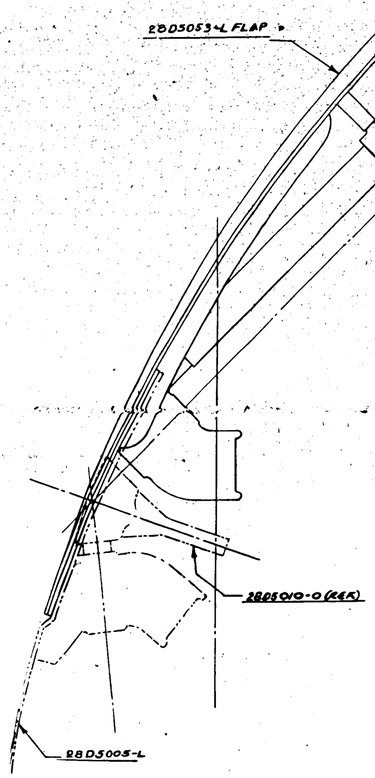
FINISH CODE	
T	TURBINE FINISH
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

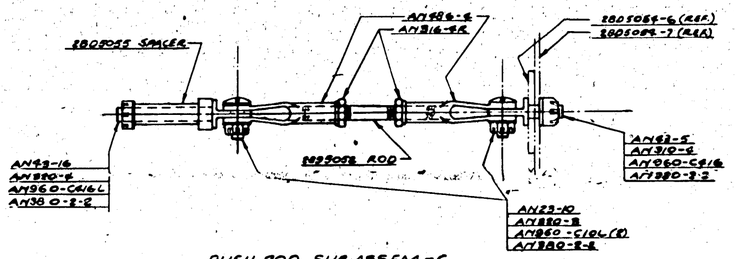
| | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



VIEW LOOKING FORWARD





PUSH-ROD SUB-ASSEM.-6

| | | | | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	PER E.O. 27311 ADD 2 HOLES AT DIM. 'A'	11-5-43	[illegible]				
	PER E.O. 27352 CHANGE DIM. 'B' TO 9 3/4 REF.						
B	PER E.O. 27334 WHITEWOOD DATED 8-8-43 ADD CUTOUT AND NOTE	12-2-43	[illegible]				
C	PER E.O. 27334 WHITEWOOD DATED 8-8-43 ADD 2 MAIN HOLES	12-2-43	[illegible]				
D	PER E.O. 27352 CHANGE DIM. 'A' TO 24 3/4 REF.	11-24-43	[illegible]				
E	PER E.O. 27352 CHANGE DIM. 'A' TO 24 3/4 REF.	11-24-43	[illegible]				
F	PER E.O. 27352 CHANGE DIM. 'A' TO 24 3/4 REF.	11-24-43	[illegible]				
	PER E.O. 27352 CHANGE DIM. 'A' TO 24 3/4 REF.	11-24-43	[illegible]				

E.O. 27311
E.O. 27352
E.O. 334 WHITEWOOD DATED 8-8-43
EASTMAN
E.O. 1951 CHG'S INCL'D
J.A.N. AN442, AN3, AN4, AN5
ROHR E.O. 1958
ROHR E.O. 1981
E.O. 2810 DT
E.O. 2810 DT
CAC CHG 247-27

24 3/4 R.
19 7/16 - 1/32
9 3/4 REF.
8 1/4
3 1/2

NOTE: JIG LOCATE HINGE CASTINGS SO THAT HINGE CENTERS ALIGN. HINGE CENTERS MUST BE IN LINE AFTER RIVETING. (B)

BEAM ENDS OF -8 TUBE FOR TIGHT FIT WITH BEARINGS 28D3005-3 & 28D3005-2

28D3005-3	BEARING ASSEM.	
AC 386-2-8	PIN	
AN 320-3	NUT	
AC 975-3	WASHER	
AN 380 C2-2	COTTER	

(8) FINISH Z-P INSIDE & OUTSIDE

28D3005-2	BEARING ASS'Y	
AC 386-2-6	PIN	
AN 320-2	NUT	
AC 975-2	WASHER	
AN 380 C2-2	COTTER	
64508-06 (A)	RIVET	

1/4
1/2 R
5/8 SPHERICAL R.

A — A

(7) SPOTWELD 70-6
FINISH Z-P AFTER SPOTWELDING

JOGGLE BETWEEN THESE LINES

Q2116-10-6.5 BEAD (K)

(H) SPOTWELDING AT 1" SPACING ALTERNATELY TYPICAL Q4503-03 RIVS AT ENDS & FINISH AFTER WELDING

(C) DRILL #30 (.070) DRAIN HOLE ONE PLACE AS SHOWN

JOGGLE

24 3/4 R. (REF.)

SECTION B-B

28D1035 FITTING

AC 386-2-D	PIN	
AN 320-3	NUT	
AC 975-3	WASHER	(G)
AN 380 C2-2	COTTER	

AN442 B4 RIVET

(9) FINISH Z-P AFTER SPOTWELD (USE TOOLS FOR 28D3002-4)

SPOTWELD

Q4505-B4 RIVET (A)

VIEW A-A

11°

(F)

(B) ℄ HINGE

(D) (V)

2 3/4

FINISH CODE	
B	ANODIC TREATMENT
P	P&I PRIMER
AP	ALUMINIZED PAINT
C	CADMIUM PLATE

G P-GREEN PRIME

| | | | | | |

LET	ALTERATION	DATE	BY
AA	AC 344-0F1032 NUT PLATE - WAS AC 344-0F1032-1	8-20-53	MAN
A	18 3/4" WAS 18 1/4"		
A	HOLES IN WIRE BRACE -04		
A	NOTE ADDED, CUT OUT [illegible] WAS AS SHOWN		
A	NOTE ADDED		
A	DWG. NOTE ADDED		
A	ADD 1/8-10-T SCREW, SHELL WAS ADDED		
A	-10 T SCREW & SHELL ADDED AN 515-10-T SCREW & SHELL		
M	CUT OUT WAS [illegible] -05	2-11-54	MAN
M	CLEARANCE 10% WAS FROM [illegible] OF CUT OUT TO TOP SIDE OF 2803201	2-11-54	MAN
K	-11 FILLER ADDED -10 REPLACED		
L	BP -14	2-11-54	MAN
L	CLEARANCE DIM. 10% WAS 10%	2-11-54	MAN
	ANGLE 0 & MS-10-3 & 2 REQD. 3 & 3/4 LONG 30° & 90° BENDS, CONNECTED BY A-A TO ASSEM. WITH 8 RIVETS WT. 0.40 LBS.		
K	ANGLE 0 & MS-10-3 & 2 REQD. 3 & 3/4 LONG 30° & 90° BENDS, PLACED ON 3 & 4 RIVETS APART WAS [illegible]		
P	REMOVED DRAIN HOLES IN BEAD PRIM. REC. C-C NO. WT. 0.40		

PBY 5,20-SHEET F, SERIAL 93 WAS E 6440-

EA PROD

SO SERIAL

LO ASSEMBLY

FLAP ASSEM. UPPER COWL

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

J 28D5004

28D5004-R

H 217

R

LET	ALTERATION	DATE	BY	LET
A	ADD -10 VIEW "D-D"	8-5-42	[illegible]	A
B	ADD VIEWS "E-E" & "F-F" ADDED	"	"	B
C	Q4303-D5 WAS Q4303-D6	"	"	C
D	AN425-3 WAS AN303-D6	"	"	D
E	DRWG NOT ADDED	8-18-42	EL	E
F	3/4 WAS 5/8 WAS 1/2	8-24-42	PRELIMINARY	F
G	3/4 WAS 5/8 WAS 1/2	9-8-42	PRELIMINARY	G
H	-10 PHENOLIC 1/8 THICK WAS 1/4 ADDED PARTS, DA-10, AS REQ'D TO REQ'TS. PER AIRSAN	9-23-42	[illegible]	H
J	ADDED LAP TO BB5005-5. CHANGE E AM BB5005-5 WAS BB5005-3	9-28-42	[illegible]	J
K	ADDED SECTION F-F & #10 (.1935) HOLE ON 28D2019-5 & DIM. 2 5/8 & 1/4 NO WT. CHG.	9-23-42	[illegible]	K
L	5 1/8 DIM. WAS 5 1/2 & 1 1/4 WAS 1. WT. CHG. NEG	9-23-42	[illegible]	L
M	CHGD VIEW E ADDED DIMS 3/8 R(2), 3/4 R (2), 1 5/8 R, 3/4 (2) & Q2156-10-6.5. REVISED SECTION "A-A"	9-23-42	[illegible]	M
N	CHGD VIEW E ADDED DIMS 5/8 R(2), 5/8 R, 1 & Q4303-03 & Q2156-10-5.0 & Q4303-03 NO WT. CHG.	9-23-42	[illegible]	N
P	REMOVED Q2156-10-6.5 & Q2156-10-6.0 FROM DWG.	9-30-42	[illegible]	P

EDC: P8Y-5 EDC: ZEIGLER 7-9-42

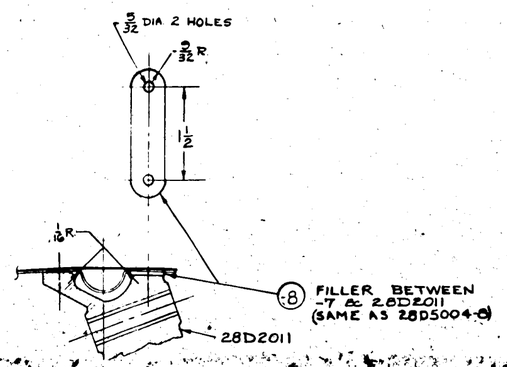
EDC: 13582 P8Y-5

E.O. A40469

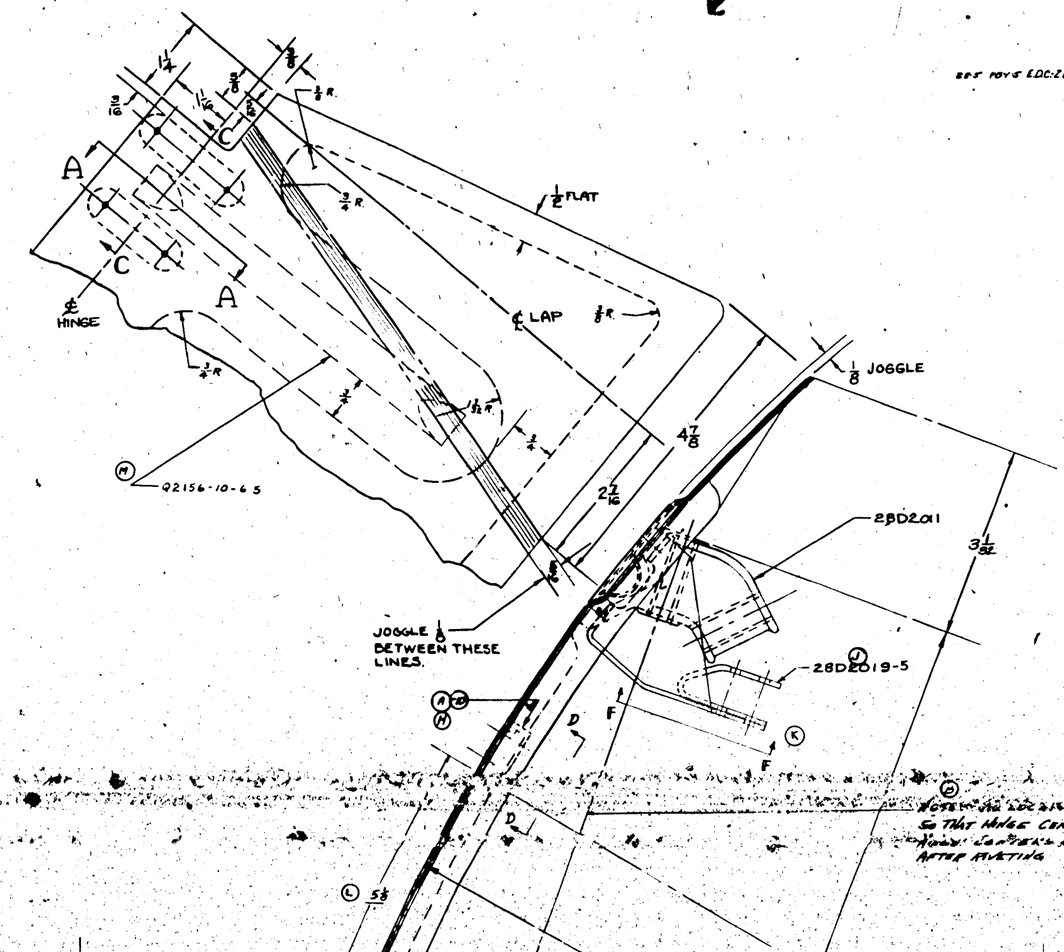
E.O. A50106

E.O. A64064

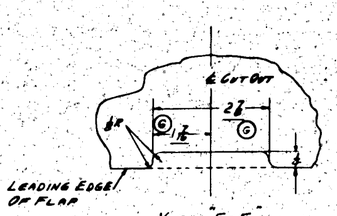
E.O. A64063



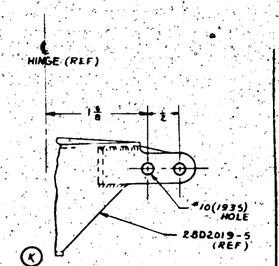
SECTION C-C



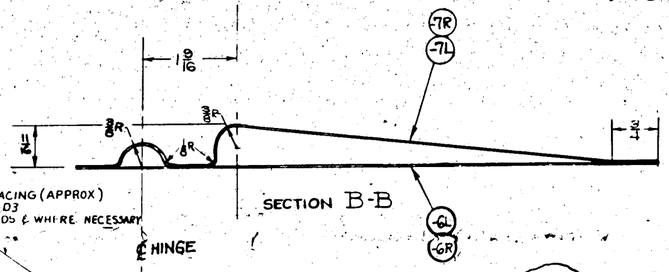
SECTION A-A



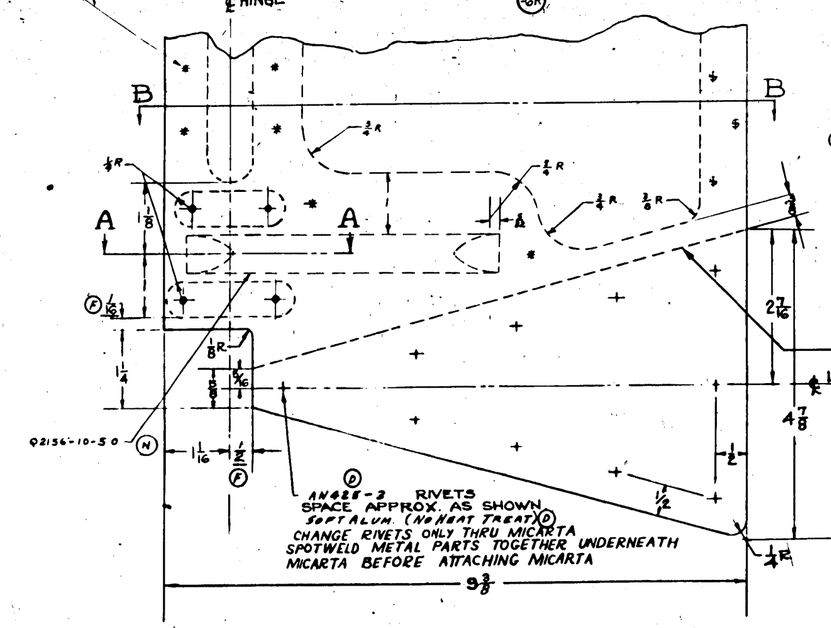
VIEW "E-E"
E

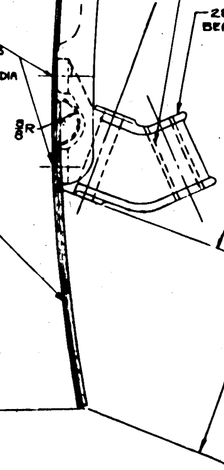


SECTION F-F
K



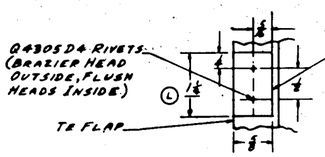
SECTION B-B





NO FINISH INSIDE BUSHINGS

28D2011 BEARING ASSEMBLY



VIEW "D-D"
A

NOTES
-6 & -7 TO BE SPOTWELDED TOGETHER FINISH ZP AFTER SPOTWELDING.

H.T. ALL COND A MATERIAL PER SPEC SR-53

C JIG LOCATE HINGE CASTINGS SO THAT HINGE CENTERS ALIGN. HINGE CENTERS MUST BE IN LINE AFTER RIVETING

ZP-GREEN PRIME FINISH CODE	
Z	ANODIC TREATMN.
P	P-37 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PL.

H 218

LET	ALTERATION	DATE	BY
A	2805004-8 "A" WAS 2805004-4 L/R	11-2-43	[illegible]
B	2805005-11 "A" WAS 2805005-9	11-15-43	[illegible]
	2805005-11 "B" ADD		
	2805005-13 "A" WAS 2805005-8		

VIEW B-B

SECT. C-C

DRILL #30 (.070) DRAIN HOLE (3 PLACES)

FLAT

BEAM ENDS OF -8 TUBE FOR TIGHT FIT WITH BEARINGS 2803005-2 & 2803005-3

2803005-6

AC386-8-6
AN380-3
AC973-3
AN380-C2-8

NOTE - JIG LOCATE HINGE COATINGS SO THAT HINGE CENTERS ALIGN. HINGE CENTERS MUST BE IN LINE AFTER RIVETING.

QE305-AD6
2 PLACES

SPOTWELD

(REF) AN442-AD6

2801085

SECTION A-A

INSIDE AT T.E.

INSIDE AT L.E.

AC386-8-6
AN380-3
AC973-3
AN380-C2-8

2805004-8

2803005-2

2805004-4

INSIDE AT BOTH L.E. & T.E.

AN426-2 SPACE AS SHOWN (CBK. BOTH SIDES)

SPOTWELDS (TYPICAL) @ 1" SPACING (APPROX)

2803005-2 (REF)

QZ156-10-6.125

VER. ℄ NAC.

HOR. ℄ NAC.

DETAIL - 9

2805004-6	BEARING ASSY.						
2805004-8	BEARING ASSY.						
2805004-9	R	MICARTA					
2805004-10	L	MICARTA					
2805004-A	SHIM						
-3	PART-A	AIRESIST 4VAB	-7				
-5	PART-B	AIRESIST 4VAB	-7				
-A	ASSEMBLY	MULTIBESTOS	-7				
-28	032 x 1.0 x 1.5	AIRCO 24AC	-7				
-31	032 x 1.0 x 1.5	AIRCO 24AC	-7				
-33	032 x 1.0 x 1.5	AIRCO 24AC	-7				
2805005-11	.032 x 1.0 x 1.5	AIRCO 24AC	-7				

PART NO.	STOCK	MATERIAL	SPEC.	QUAN. PER ASSY. -0	-3	-3	-4	-8

SCALE	NONE	Z-P-GP	
WEIGHT	WEIGHT	FINISH	DRAFT

NAME: COWL FLAP-UPPER EXHAUST ANTI-ICING

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE: J — DWG. NO. 2805053 — REV. —

SHEET 10 OF 10

H 219

LET.	ALTERATION	DATE	BY

MT.	ALTERATION	DATE	BY

FOR ENG ON R.H. SIDE OF B-24 & B-24R
32D021-0
32D022-0

FOR ENG ON L.H. SIDE OF B24 & B-24A
32D021-3
32D022-3

FOR BOTH L.&R.H ENG. OF B24-J
32D021-8
32D022-8

32D024-2 UPPER PANEL ASSY
32D024-0 UPPER PANEL ASSY. (B24 & B24 ONLY)

(E) Q50BA-6 (6)
AN526-D0832-8 (10)
AC365-D832 (10)
PER ENGINE

JOINT

2.5 (MIN)

FRONT VIEW — LOOKING AFT

32D023 DOOR ASSEM. FOR -2L & -2R ASSY
32D023-2L FOR -0 & -3 ASSY

LEFT SIDE VIEW
FORWARD

NOTE:-L-0 FOR RIGHT HAND ENGINE
-3 FOR LEFT HAND ENGINE

(2) 32D021-4L IS AN INTERCHANGEABLE ALTERNATE FOR 32D021-2L. 32D021-4R IS AN INTERCHANGEABLE ALTERNATE FOR 32D021-2R. 32D022-4L IS AN INTERCHANGEABLE ALTERNATE FOR 32D022-2L. 32D022-4R IS AN INTERCHANGEABLE ALTERNATE FOR 32D022-2R.

(6) PIN
STAINLESS STEEL WIRE SPEC 46-37 TYPE 2
STAINLESS STEEL WIRE SPEC 33170 GRD 4
BENDS MADE BOTH ENDS TO LOCK PIN

VIEW A-A
SCALE 1-6

Part No.	Name	Material	Qty.
32D020	COVER ASSEM. ENGINE		

H 220

R-020022

REV	ALTERATION	DATE	BY
AD	IN B/M. FOR -10 SUB ASSY: ADDED -12D, & FOR -13 SUB ASSY: ADDED -12E. WT. CHG. NEG. 0.13 #.		
AE	ON FACE OF DWG. & IN B/M. ADDED Z8D5059-14, -15, -16, -17, -18, -19, -20, -21. LIMITED 32D0855 & 32D0856 TO -2, -3, -22, -23, -24, -25, -12, -13 & -14. DELETED 32D0855 LIMITER 32D0856-1 FOR -2, -3, -22, -23, -24, -25, -12, -13 & -14. WT. THIS DWG. -0.14 #.		

REV	ALTERATION	DATE	BY
	Q4305AD4 (FOR -0 ASS'Y) Q4305D4 (-2 1/2 ASS'Y)		
	Q4303AD8 (-0 ASS'Y) Q4305D4 (-2L & -2R) FLUSH ON INSIDE		
	(12) HINGE HALF HINGE TO MATCH 32D0158 (REF) SUPPORT MAKE FROM Y564A12T		
	SECTION A-A ZONE C-4 SCALE: 12"=1'-0"		
	32D0158-7L (REF)		
	SECTION H-H ZONE C-4 SCALE: 12"=1'-0" FOR -2 1/2 ASS'Y ONLY		
	Q4303AD8 (-0 ASS'Y) Q4305D4 (-2 1/2 ASS'Y) FLUSH ON INSIDE		
	Q4303AD4 (-0 ASS'Y) Q4305D4 (-2 1/2 ASS'Y) 18 REQ @ 1" SPACES		
	SPOTWELD TO -7		
	(13) 12 3/8 LONG ARMY SPEC. 43-37 TYPE II NAVY " 22W13 COND. H		
	STAKE HINGE BOTH ENDS TO LOCK PIN		
	SECTION C-C ZONE D-4 SCALE: 12"=1'-0"		
	Q4308-AD8 FOR -0 ASS'Y Q4305-D4 FOR -2 1/2		
	SPOTWELD TO -7		
	SECTION B-B SCALE: 12"=1'-0" ZONE C-4		
	(14) ARMY SPEC. 11067 TYPE I NAVY " 47A8 COND. A A.C. SPEC. 86-10026 NAVY SPEC. 88-53		
	Q4308AD6 (FOR -0 ASS'Y) Q4305D6 (-2 L & -2R ASS'Y)		
	SPOTWELD TO -6		
	Z8D1044 FILLER Z8D1051 CLIP		
	Z8D1034 BOLT ASS'Y		
	Z8D1056		
	3/8 (REF) JOINT		
	SECTION D-D ZONE F-6 SCALE: 12"=1'-0"		
	Z8D5059 PAD (REF) (45)		
	BRACE ROD		
	32D01 (REF) BRACE ROD "T" SECTION		
	CUTOUT NOT REQUIRED ON LB-30, Z8-5M, MC, AMC, & OA-10 AIRPLANES, WHICH USE 32D5011 (REF) BRACE RODS		
	DETAIL G ZONE D-6 SCALE: 12"=1'-0"		
	32D0059-5 (FOR -0 ASS'Y ONLY) LOCATE TO SUIT END BAFFLE		
	AN425-AD8 (FOR -0 ASS'Y) Q4308-D8 (-2L & -2R ASS'Y) AN960D8		
	(46) Z8D5059-6		
	32D059-24 (-5, -2L & -2R ASS'Y)		
	32D054		
	32D055-6 (REF) Z8D5059-14 (REF)		
	AN425-AD8 (FOR -0 ASS'Y) Q4305D8 (-2L & -2R ASS'Y) TO RIVET -17 TO -7		
	LOCATION OF PAD CUTOUT FOR -2R ASS'Y ONLY		
	PAD RIVETS THRU 32D054 ARE AN442-AD3		
	32D055-8 (REF) 32D055-22 (REF) Z8D5059-16 (REF)		
	24R		
	(18) -0 & -2L ASS'Y		
	(19) SUB ASS'Y -2R ASS'Y		
	(K) (40) 4 1/2 R ASS'Y		
	TO INSIDE OF SHEET		
	27 3/8 R		
	32D055-84 (REF) Z8D5059-16 (REF)		
	24 3/8 R		
	32D055-9 (REF) Z8D5059-17 (REF)		
	(21) SUB-ASS'Y LOWER PANEL (K) (50) -4 1/2 R ASS'Y		
	JOINT		
	32D055-12 (REF) Z8D5059-18 (REF)		
	4 EQUI-SPACED		
	25"		
	32D055-13 (REF) Z8D5059-19 (REF)		
	32D021-17 (SEE DETAIL) RIVETED TO 32D054 WITH AN442-AD3		
	4 EQUI-SPACED		
	(41) ARMY SPEC QQ-A-931 COND T NAVY " 46A10 COND T		
	(10) ARMY SPEC QQ-A-931 COND T NAVY " 46A10 COND T		
	PAD RIVETS THROUGH 32D034 ARE AN442-AD3 AN 960 D3 WASHER		
	(7) SKIN ARMY SPEC 11067 TYPE II NAVY " 47A8 COND T		
	COWL BRACE		
	SPOTWELD TO -7 ARMY SPEC QQ-A-931 COND T NAVY " 46A10 COND T		
	(11)		
	(8) SPOTWELD TO -6 ARMY SPEC QQ-A-931 COND T NAVY " 46A10 COND T		
	(6) SKIN ARMY SPEC 11067-TYPE II NAVY " 47A8 COND T		
	COWL BRACE		
	(10)		
	HINGE PIN		
	18 1/2		
	28D5059-14 32D055-6 (AC)		
	(17) (REF) SYM.		
	AN425-AD3 (FOR -0 ASS'Y) Q4305-D8 (FOR -2 1/2 ASS'Y) (18 REQ. HERE) (AE)		
	Z8D5059-15 32D055-8 (FOR -3L ASS'Y) 32D055-22 (FOR -0, -2L, -2R & -5L ASS'Y)		
	32D055-24 Z8D5059-16 (AC)		
	AN425-AD8 (FOR -0 ASS'Y) Q4305-D8 (FOR -2 1/2 ASS'Y)		
	HINGE PIN		
	DRILL #40 (0.0980) 8 PLACES		
	DETAIL 32D021-17 ZONE D-5		
	32D055-9 Z8D5059-17 (AC)		
	32D055-12 Z8D5059-18 (AC)		
	Z8D5059-19 (AC) 32D02513 RIVETED ON ONE SIDE ONLY (2 RIVETS)		
	4 1/2		
	E-15 HINGE		
	NOTE: ALL DIMS IN SIDE VIEW ARE TRUE, ARE MEASURED ALONG INSIDE OF SKIN. ALL SPOTWELD TO BE SPACED APPROX. 1".		
	(K) 2 -4L ASS'Y IS INTERCHANGEABLE WITH -2L ASS'Y. -4R ASS'Y. IS INTERCHANGEABLE WITH -2R ASS'Y. FOR PRY 5 & 5A		
	Q4308-AD8 (-0 ASS'Y) Q4305 D4 (-2L & -2R)		
	D		
	VIEW F-F ZONE E-6 SCALE: 6"=1'-0"		
	Q4308AD8 (-0 ASS'Y) Q4305 D4 (-2R & -2L) FLUSH ON INSIDE		
	(15) HINGE HALF MAKE FROM AN851-1-18 12 1/2 LONG		
	RIVET AN442AD4		
	13 1/4		
	VIEW E-E ZONE E-6 SCALE: 12"=1'-0"		

REV	ALTERATION	DATE	BY
	Q4308AD6 (FOR PRY-5A) MCR 319-1 (REF)		
	Q4308AD6 (-1 FOR PRY-5A) MCR 319-1 (ADD)		
	AN425-AD8 (FOR -0 & -2 L/R ASS'Y)		
	Q4303AD8 (FOR -0 ASS'Y)		
	Q4303AD4 (FOR -2 1/2 ASS'Y)		
	Q4303AD4 (-5 1/2 ASS'Y)		
	Q4303AD8 (FOR -2 1/2 ASS'Y)		
	Q4303AD8 (FOR -0 ASS'Y)		
	Q4303AD4 (FOR -0 ASS'Y)		
	Q4452AD3 (FOR -0 & -2 L/R ASS'Y)		
	Q4452AD3 (FOR -0 ASS'Y)		
	AN960D6	1	
	AN960D8	2	
	AN960D10	2	
	AN960D16	2	
	AN960D31	2	
	32D055-13 (FOR PRY-5A UP TO MCR 319-1)		
	32D055-16 (FOR PRY-5A UP TO MCR 319-1)		
	32D055-5 (FOR PRY-5A UP TO MCR 319-1)		
	32D054-13 (FOR PRY-5A UP TO MCR 319-1)		
	-14 .040 x 3 3/4 x 19 (ALC 2456) NOTED		
	-15 (ZL) Y564A12T-19		
	-15 (RY & -5) Y564A12T-18		
	-11 K1202A-16 AL-A 5331 NOTED		
	-10 K1202A-16 AL-A 5331 NOTED	1	
	-8 K1202A-30 AL-A 5331 NOTED	2	
32D021-16	.040 x 15 x 30 ALCLAD NOTED		
	(2R) & -5 ASSEMBLED ON -20 SUB-ASS'Y		
	Z8D5059-6 (FOR PRY-5A MCR 319-1A ON)		
	Z8D5059-16 (FOR PRY-5A MCR 319-1A ON)		
	Z8D5059-5 (FOR PRY-5A MCR 319-1A ON)		
	Z8D5059-14 (FOR PRY-5A MCR 319-1A ON)		
	AN960-416		
	Q4303D8		
	Q4303D4		
	AN442AD3		
	32D059-24 (UP TO MCR 319-1 FOR PRY-5A)		
	32D055-24 (UP TO MCR 319-1 FOR PRY-5A)		
	32D055-9 (UP TO MCR 319-1 FOR PRY-5A)		
	32D055-4 (UP TO MCR 319-1 FOR PRY-5A)		
	32D054		
	32D021-17 .032 x 2 3/4 x 15 5/8 ALCLAD 11067-T		
	-12L Y564-A12T-18		
	-12R Y564-A12T-18		
	-11 K1202A-16 AL-A 5331 NOTED		
	-10 K1202A-16 AL-A 5331 NOTED		
	-9 K1202A-30 AL-A 5331 NOTED		
32D021-7	.090 x 15 x 30 ALCLAD NOTED		
	(2R) & -5 ASSEMBLED ON -13 SUB ASS'Y		
	Z8D5059-16 (FOR PRY-5A MCR 319-1A ON)		
	Z8D5059-15 (MCR 319-1A ON FOR PRY-5A)		
	Z8D5059-15 (MCR 319-1A ON FOR PRY-5A)		
	Z8D5059-14 (MCR 319-1A ON FOR PRY-5A)		
	AN960D4 (FOR -2 & -2 L/R ASS'Y)		
	32D059-0 (FOR -0 ASS'Y ONLY)		
	AN960D1 (FOR -2L & -2R ASS'Y)		
	AN960D10L (FOR -2L & -2R ASS'Y)		
	32D021-18 (UP TO MCR 319-1 FOR PRY-5A)		
	32D011-8 (UP TO MCR 319-1 FOR PRY-5A)		
	32D034 (UP TO MCR 319-1 FOR PRY-5A)		
	-12R Y564-A12T-18		
	-12R Y564-A12T-18		
	-11 K1202A-16 AL-A 5331 NOTED		
	-10 K1202A-16 AL-A 5331 NOTED		
	-8 K1202A-30 AL-A 5331 NOTED		
32D021-7	.090 x 15 x 30 ALCLAD NOTED		
	PARTS ASSEMBLED ON -13 SUB ASS'Y		
	AN960D1 (FOR -2 & -2 L/R ASS'Y)		
	32D021-16 SUB ASS'Y OVER PREP (REF)		
	32D021-17 .032 x 2 3/4 x 15 5/8 ALC 2456 11067-T		
	-12L SUB ASS'Y		
	-12R SUB ASS'Y		
	-11 SUB ASS'Y		
	-10 SUB ASS'Y		
	-8 SUB ASS'Y		

PART NO.	SYMBOL	MATERIAL	SPEC	LH REQ'D	RH REQ'D	-0	-2	-3	-4
PARTS LIST FOR ASSY									

AS NOTED	CA CEP-52 001		
NAVY			
HOLT DWG NO.	PREPARED	CHECKED	APPROVED
NAME PANEL ASSEM. - ENG COWL-LEFT SIDE			
CONSOLIDATED AIRCRAFT CORP.		CAGE CODE J	32D021 SHEET 1 OF 6

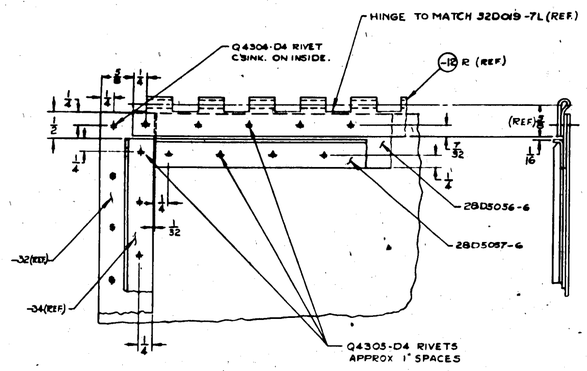
H-221

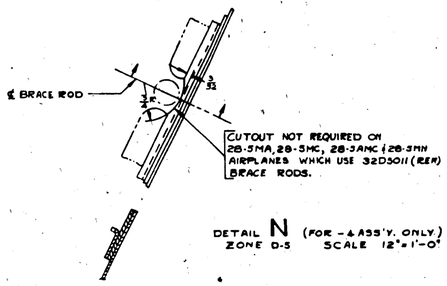
R 120D2E

LET	ALTERATIONS	DATE	BY
A	IN B/M ADDED 2AD5058-1A, -15-16-17, -18, -19 & -20, 1 REQD 32D0522-24, -24A, -24B, -24C & 32D0059-24 USED TO MCR 319-1		

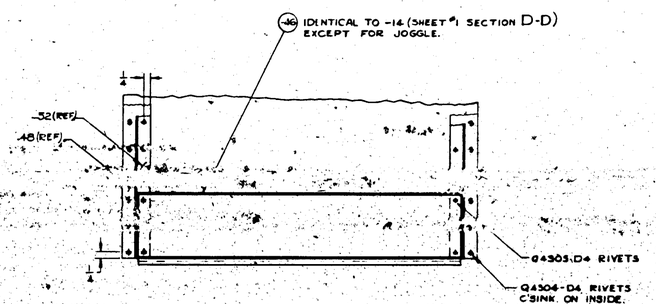
MCR319-1

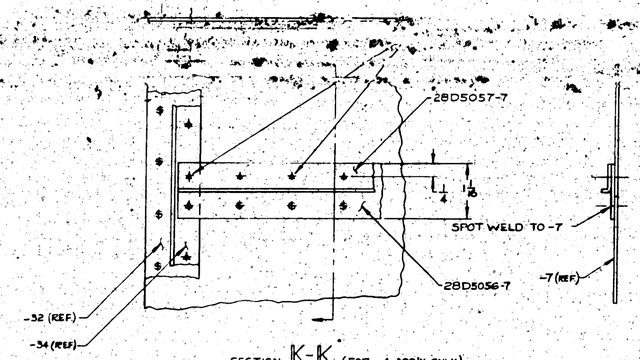
SECTION J-J (FOR -4 ASS'Y ONLY)
ZONE C-4 SCALE 12"=1'-0"



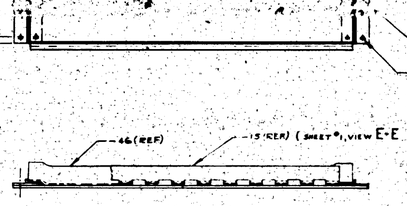


DETAIL N (FOR -4 ASS'Y. ONLY)
ZONE D-5 SCALE 12"=1'-0"

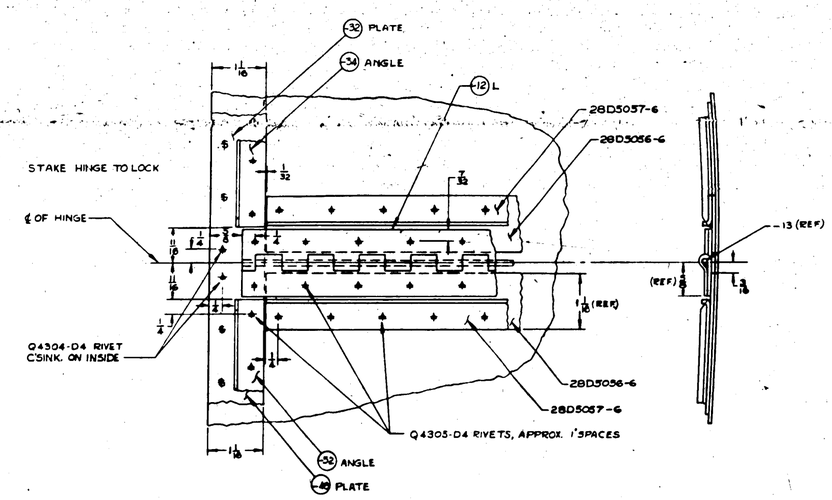




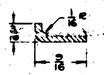
SECTION K-K (FOR -4 ASS'Y ONLY)
ZONE C-4 SCALE 12"=1'-0"



VIEW M-M (FOR -4 ASS'Y ONLY)
ZONE E-6 SCALE 6"=1'-0"



SECTION L-L (FOR -4 ASS'Y. ONLY)
ZONE D-4 SCALE 12"=1'-0"



TYPICAL CROSS-SECTION FOR -34 & -52.
SCALE 24"=1'-0"

NOTES-

1. ALL SPOTWELD TO BE SPACED APPROX 1".
2. -4L ASS'Y. IS INTERCHANGEABLE WITH -2L ASS'Y -4R ASS'Y. IS INTERCHANGEABLE WITH -2R ASS'Y
3. PARTS LISTED IN B/M IN -4L & -4R ASS'YS., NOT CALLED OUT ON FACE, ARE INSTALLED AS PER -2L & -2R ASS'YS. (SEE SHEET #1)

PART NO.	STOCK	MATERIAL	SPEC.	LH QH REQ.	LH RH REQ.	RH QH REQ.	RH RH REQ.	ZONE
		PARTS LIST PER ASSY.		-0	-2	-3	-4	
2AD5059-19 (FOR PRY-SA MCR 319-1 & ON)				1				B-6
2AD5053-19A (FOR PRY-SA MCR 319-1 & ON)				1				D-6
2AD5053-19 (FOR PRY-SA MCR 319-1 & ON)				1				D-6
AN960-AL3				40				
AN960-AD4								
Q4305-D4				1				
Q4303-D4				1				
Q4303E-D3				1				
Q4304-D4				1				
28D1056				1				B-6
28D1044				2				B-5
28D1046				2				B-5
28D1031				8				C-6
32D0054-19 (FOR PRY-SA UP TO MCR 319-1)				1				C-6
32D0053-19 (FOR PRY-SA UP TO MCR 319-1)				1				D-6
32D0053-3 (FOR PRY-SA UP TO MCR 319-1)				1				D-6
-34 .064 x 2-3/4 x [illegible]				1				B-6
32D0048-48 .081 x 1-1/8 x 30				1				B-6
28D5057-6				1				C-12
28D5056-6				1				C-12
28D5057-7				5				C-13
28D5056-7				5				C-13
-12				1				C-6
-46 .250 x 2-3/4 x [illegible]				1				C-11
-18				1				
32D021-8				1				D-6
PARTS ASSEMBLED ON -50 SUB ASSY								
2AD5055-16 (FOR PRY-SA MCR 319-1 & ON)				1				C-6
2AD5055-16A (FOR PRY-SA MCR 319-1 & ON)				1				D-6
AN960-AL3				14				
AN960-AD4								
Q4303-D4				1				
Q4303-D3				1				
Q4304-D4				1				
32D0053-8A (FOR PRY-SA UP TO MCR 319-1)				1				C-6
32D0052-24 (FOR PRY-SA UP TO MCR 319-1)				1				D-6
32D0052-24 (FOR PRY-SA UP TO MCR 319-1)				1				D-6
32D0052-8 (FOR PRY-SA UP TO MCR 319-1)				1				C-6
32D0054				1				C-6
2AD5058-16 (FOR PRY-SA MCR 319-1 & ON)				1				D-6
2AD5058-16A (FOR PRY-SA MCR 319-1 & ON)				1				C-6
28D5037-A				2				C-12
28D5036-6				2				C-12
28D5037-7				3				C-13
28D5036-7				3				C-13
-32 .064 x 2-7/8				4				D-12
-34 .081 x 1-3/4 x 30				4				D-12
-17				1				D-3
-15				1				D-3
-16				1				D-3
28D021-7				1				C-6
PARTS ASSEMBLED ON -48 SUB ASSY								

A.C.		FINISH	
HEAT TREAT			
NAME PANEL ASSEM. - ENG. COWL - LEFT SIDE			
SIZE J	DWG NO. 32D021	SHEET 2 OF 2	

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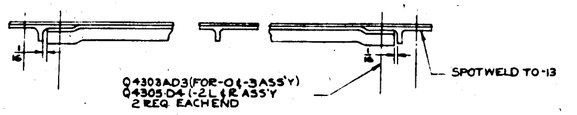
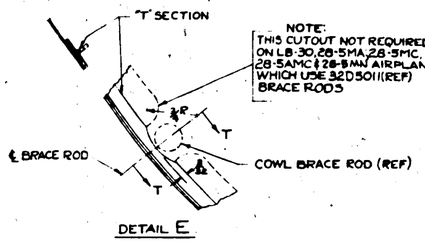
7 | 6 | 5 | 4 | 3 | 2 | 1

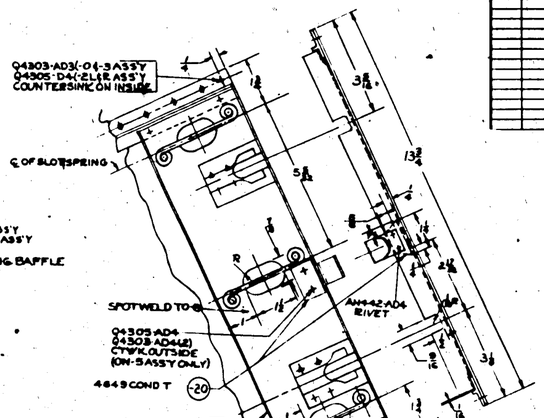
LET	ALTERATION	DATE	BY
AD	TRACED		
AE	ADDED 32D059-24 FOR -2 A/C		
	ASSY. NO WT CHG		
AF	32D055-23(1) REPLACES 32D055-11(1) FOR -2C (1) ON WITH		
AG	IR R/M CREATED - 6 USE'Y SOME AS -2 ASS'Y EXCEPT -42 SUB ASSY REPLACES -6 SUB ASSY, 1 - 44 SUB ASSY REPLACES -7 SUB ASSY'S & -18 SUB ASS'Y'S TO RACE, ADDED NOTE "A" TO DWG, ADDED SHEET "2" SHOWING SECTIONS F-F, G-G H-H, I-I & DETAIL K IN LIEU OF SHEET "1", ITEMIZED -42 SUB-ASSY, & -44 SUB ASS'Y, WT. INCREASE .78 WHEN USING - 6 ASS'Y.		
AH	ON FOR'S OR DWG. E IN R/M RE-PLACED 32D065-7,-10,-14, -21,-6,-23,-27 & 32D059-29 WITH 28D5059-10,-11,-13,-12, -7,-8,-9, & -6 RESPECTIVELY, FOR PBY-5A-MCR 319-1 & ON WT. CHG. NEG.		

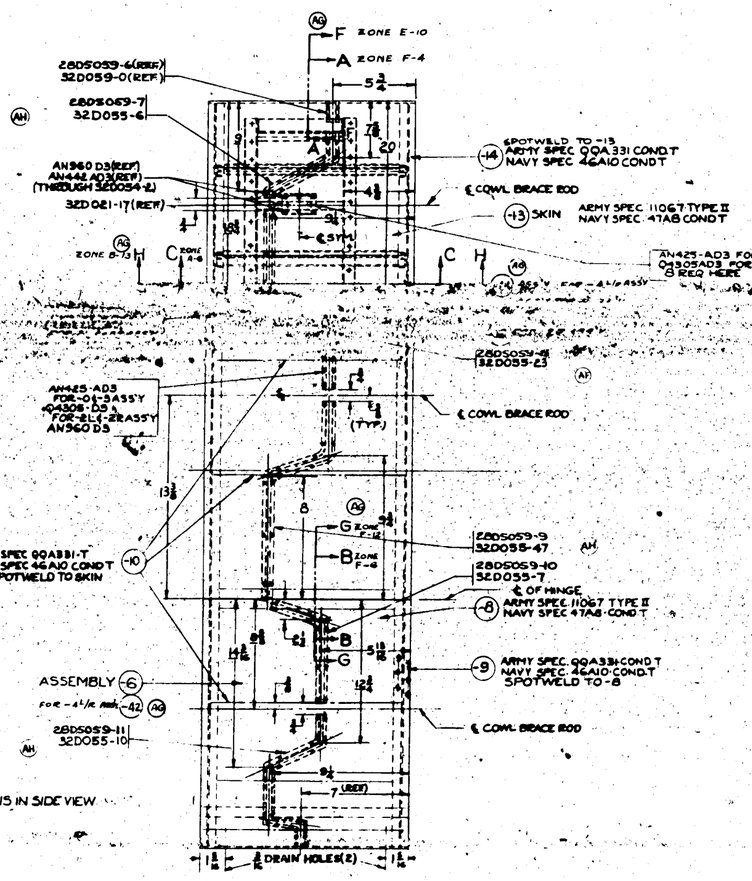


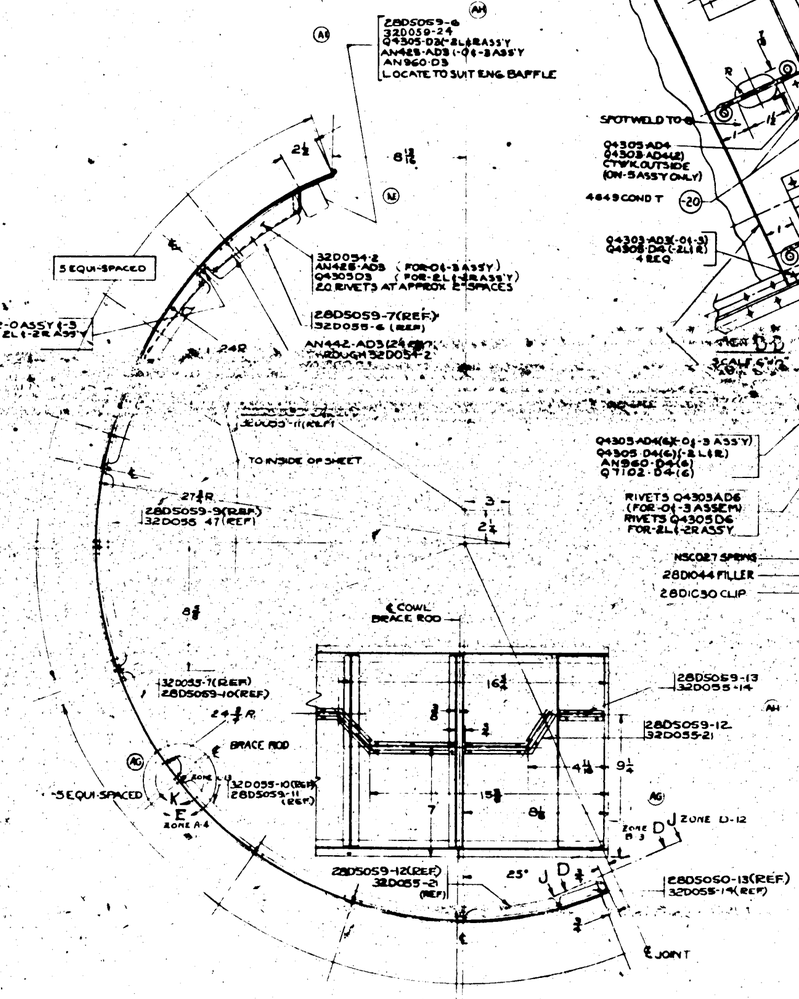
SECTION C-C SCALE 12"=1'0"
ZONE B-6

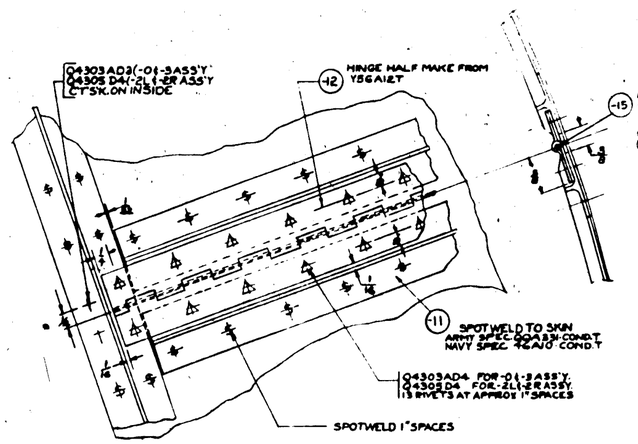


DETAIL E

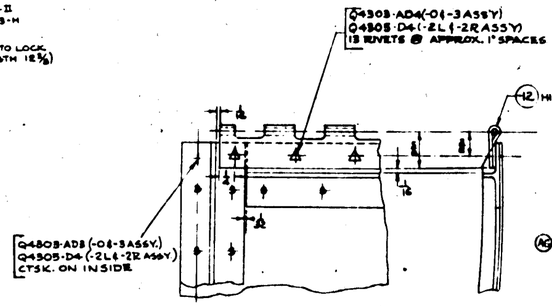








SECTION BB SCALE 12"=1'0"
ZONE C-6



SECTION AA SCALE 12"=1'0"
ZONE B-6

AN425AD3												
04303AD3												
32D039-5								1				
32D055-47								1				
32D055-11								1				
32D055-6								1				
32D059-2								1				
32D021-17								1				
32D022-14								2				
-13								1				
-12								2				
-11								2				
32D022-10								6				
PARTS ASSEMBLED ON -23 SUB-ASSY												
28D5059-6 (FOR PBY-5A MCR 319-1 & ON)								1				B-9
AN960 A1								AR				
AN442-AD3												
28D5059-9 (FOR PBY-5A MCR 319-1 & ON)								1				C-5
04303D4												
04303D3												
28-5-37-8 (FOR PBY-5A MCR 319-1 & ON)								1				C-5
32D055-24 (FOR PBY-5A UP TO MCR 319-1)								1				B-9
32D055-47 (FOR PBY-5A UP TO MCR 319-1)								1				C-5
32D055-23 (FOR PBY-5A UP TO MCR 319-1)								1				C-5
32D055-6 (FOR PBY-5A UP TO MCR 319-1)								1				B-9
32D055-2								1				B-9
32D021-17								1				C-5
28D5059-7 (FOR PBY-5A MCR 319-1 & ON)								1				B-9
32D022-14								2				B-9
-13								1				C-5
-12								2				C-5
-11								2				C-5
32D022-10								6				C-5
PARTS ASSEMBLED ON -18 SUB-ASSY.												
28D5059-8 (FOR PBY-5A MCR 319-1 & ON)								1				B-9
AN960D3								AR				
AN442AD3												
AN425-AD3	FOR -0, -3, & -5 ASS'YS ONLY											
28D5059-9 (FOR PBY-5A MCR 319-1 & ON)								1				C-5
04303D3	FOR -3 ASS'Y ONLY											
04303D3	FOR -3 ASS'Y ONLY											
04303AD3	FOR -3 ASS'Y ONLY											
04303AD3	FOR -0, -3, & -5 ASS'YS ONLY											
28D5059-8 (FOR PBY-5A MCR 319-1 & ON)								1				C-5
32D055-24	(REPLACES 32D055-8 ON -5 ASS'Y)							1				
32D059-24	(FOR PBY-5A UP TO MCR 319-1)							1				B-9
32D055-47	(FOR PBY-5A UP TO MCR 319-1)							1				C-5
32D055-23	(FOR PBY-5A UP TO MCR 319-1)							1				C-5
32D055-6	(FOR PBY-5A UP TO MCR 319-1)							1				B-9
32D058-2								1				B-9
32D021-17								1				B-6
28D5059-7 (FOR PBY-5A MCR 319-1 & ON)								1				B-6
32D022-14	X132A8A8	SHT	NOTED					2				A-2
-13	AN960-D3 W/2 AD	ALC. PART	NOTED					1				C-5
-12								2				A-2
-11								2				C-5
32D022-18								6				C-5
PARTS ASSEMBLED ON -2 SUB-ASS'Y.												
28D5059-12 (FOR PBY-5A MCR 319-1 & ON)								1				D-5
AN960-3A								87				
AN442A04	FOR -0, -2L & -2R ASS'YS ONLY											
AN425AD3	FOR -0, -3, & -5 ASS'YS ONLY											D-3
28D5059-10 (FOR PBY-5A MCR 319-1 & ON)								1				
MSC 027								3				
28D5059-11 (FOR PBY-5A MCR 319-1 & ON)								1				D-9
04303A04	FOR -2L & -2R ASS'YS ONLY											
04303D3												
04303AD4	FOR -0, -3, & -5 ASS'YS ONLY											
04303AD3												
28D5059-10 (FOR PBY-5A MCR 319-1 & ON)								1				D-9
32D055-23	(FOR PBY-5A UP TO MCR 319-1)							1				
32D055-14	(FOR PBY-5A UP TO MCR 319-1)							1				
32D055-10	(FOR PBY-5A UP TO MCR 319-1)							1				
32D058-7	(FOR PBY-5A UP TO MCR 319-1)							1				
28D1044								2				
28D1056								2				
28D1030								2				
32D022-20	Y56A12T x 1 1/8							1				A-2
-17	AN960 3/8x12 SS	ALC. 2960	NOTED					1				C-5
-12	Y56A12T x 1 1/8							1				A-2
-11	X132A8A12	SHT	NOTED					2				A-2
-10	X132A8A11	SHT	NOTED					6				C-6
-8, -6	X132A8A1	SHT	NOTED					2				C-2
32D022-8	AN960A 1/8x16	ALC. 2951	NOTED					1				C-2
PARTS ASSEMBLED ON -4 SUB-ASS'Y.												
-44	SUB-ASSY (SEE SHEET 2)							1				C-9
-42	SUB-ASSY (SEE SHEET 2)							1				D-6
-15	1/8 DIA. x 16	ST. ST'L	WIRE NOTED					1				A-2
-23	SUB ASS'Y							1				
-18	SUB ASS'Y							1				C-5
-7	SUB ASS'Y							1				C-5
-4	SUB ASS'Y							1				D-5

-4½	SEE NOTE	No.										
-2R	PBY-5	32D020	1									
-2L	PBY-5	32D020	1									
-5R	PBY-5A	32D020	1									
-5L	PBY-5A	32D020	1									
-2R	PBY-5A	32D020	1									
-2L	PBY-5A	32D020	1									
-3R	PB-5MC	32D020	1									
-3L	PB-5MC	32D020	1									
-5R	PB-5AMA	32D020	1									
-5L	PB-5AMA	32D020	1									
-2R	PB-5AMC	32D020	1									
-2L	PB-5AMC	32D020	1									
-3R	PB-5MA	32D020	1									
-2L	PB-5MA	32D020	1									
-2R	PB-5MC	32D020	1									
-2L	PB-5MC	32D020	1									
-2L	PB-5MA	32D020	1									
-3	LB-30	32D020	4									
-3	B-29A	32D020	2									
-3	B-29A	32D020	2									
-3	XB-29	32D020	2									
-3	B-29B	32D020	2									
-3	B-29	32D020	2									
-3	XB-29	32D020	2									

MODEL	HEAT ASSY	REQ
REQUIREMENTS PER AIRPLANE		

REPLACES 32D022 -AC SUFF. AP -18-11	SCALE WT.
REPLACED BY	ACT. WT.

UNLESS OTHERWISE SPECIFIED	SCALE 3"=1'-0"
± 1/32	A NOTED

STAMP PART NUMBER WHERE SHOWN

PART NO.	STOCK	MATERIAL	SPEC.	LAY-OUT	LAY-OUT	LAY-OUT	LAY-OUT	LAY-OUT	LAY-OUT
				DWG.	DWG.	DWG.	DWG.	DWG.	DWG.
PARTS LIST PER ASSY.				-0	-2	-3	-4	-5	

A.C. NOTED	C.A.C. 27-32-001	MATL RELEASE	RALMH	EMS	GP		FWF
DRAFT		7-14-39	7-18-39			1 HOUR	7-18-39
HEAT TREAT	FINISH	DRAFT	CHECK	STRESS	MAT.	APPROVED	ENG.

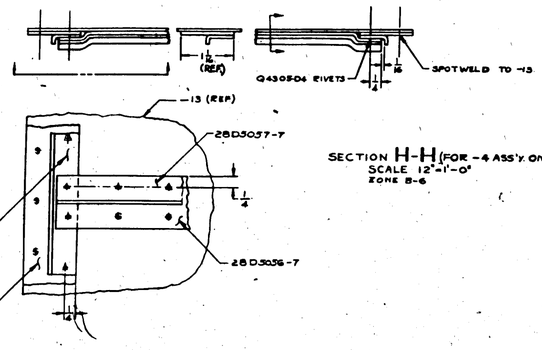
NAME PANEL ASSEMBLY - ENGINE COWL - RIGHT SIDE

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

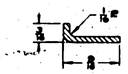
SIZE J | DWG. 32D022 | SHEET 1 OF 2

H 223

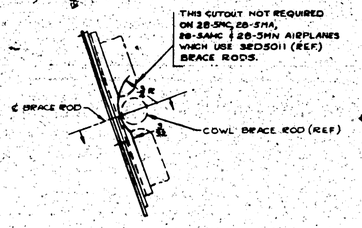
LET	ALTERATION	DATE	BY
A	IN P/N REPLACED "REDACTED" -7 -10,-16 -24,-5 -33,-47 & 48 WITH 28D5056-5,-6 WITH PAD PER -13,-41,-43,-47,-7,-8,-51 & -54, CHANGED LIMIT, ADD DWG NO. MCR 319-1 & -41, MCR 434, MCR 435 PER ECR 8(2319-1		



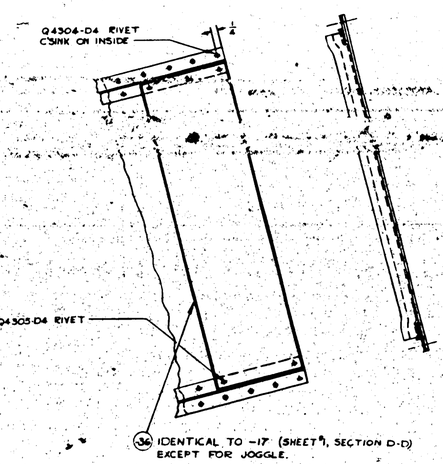
SECTION H-H (FOR -4 ASS'Y. ONLY)
SCALE 12"=1'-0"
ZONE B-6



TYPICAL CROSS-SECTION
FOR -26, -40.
SCALE 24"=1'-0"

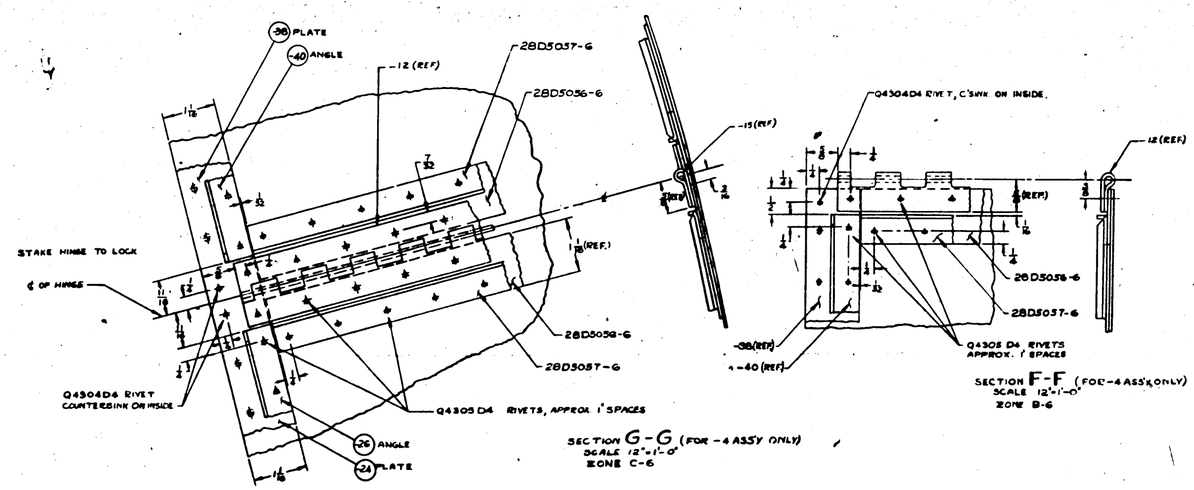


DETAIL K (FOR -4 ASS'Y ONLY)
SCALE 12"=1'-0"
ZONE D-4



SECTION J-J (FOR -4 ASS'Y ONLY)
SCALE 6"=1'-0"
ZONE D-3

NOTES –
1. ALL SPOTWELD TO BE SPACED APPROX 1".
2. -4L ASS'Y IS INTERCHANGEABLE WITH -2L ASS'Y. -4R ASS'Y IS INTERCHANGEABLE WITH -2R ASS'Y.
3. PARTS LISTED IN P/N IN -4L & -4R ASS'YS., NOT CALLED OUT ON FACE, ARE INSTALLED AS PER -2L & -2R ASS'YS. (SEE SHEET 1)



SECTION G-G (FOR -4 ASS'Y ONLY)
SCALE 12"=1'-0"
ZONE C-6

SECTION F-F (FOR -4 ASS'Y ONLY)
SCALE 12"=1'-0"
ZONE B-6

PART NO.	SYMBOL	MATERIAL	SPEC.	LH REQ'D -0	LH REQ'D -2	LH REQ'D -3	LH REQ'D -4	LH REQ'D -5
28D5069-4	(FOR DWY-SA MCR 319-1 & -41)			1				B-4
28D5069-9	(FOR DWY-SA MCR 319-1 & -41)			1				C-5
28D5069-11	(FOR DWY-SA MCR 319-1 & -41)			1				C-5
28D5069-7	(FOR DWY-SA MCR 319-1 & -41)			1				B-6
3ED5011-8				AR				
Q4303D4								
Q4304D4								
Q4307D3								
28D5069-3	(FOR DWY-SA UP TO MCR 319-1)			1				X-3
28D5069-6	(FOR DWY-SA UP TO MCR 319-1)			1				C-5
28D5069-10	(FOR DWY-SA UP TO MCR 319-1)			1				C-5
28D5069-5	(FOR DWY-SA UP TO MCR 319-1)			1				B-6
28D5069-2				1				B-6
28D5069-12				1				B-6
-40				1				D-3
28D5037-6				2				D-3
28D5037-4				2				C-3
28D5037-5				2				C-3
28D5037-7				4				D-3
28D5056-7				4				D-3
-41				1				C-4
32D0224-12				1				D-3
	PARTS ASSEMBLED ON -44 SUB-ASS'Y.							
3ED5011-8				AR				
Q4303D4								
28D5037-6				3				C-3
28D5069-12	(FOR DWY-SA MCR 319-1 & -41)			1				D-3
Q4304D4								
Q4305D4								
Q4306D4								
Q4304D4								
28D5069-13	(FOR DWY-SA MCR 319-1 & -41)			1				D-3
28D5069-11	(FOR DWY-SA MCR 319-1 & -41)			1				D-4
28D5037-3	(FOR DWY-SA UP TO MCR 319-1)			1				D-3
28D5037-5	(FOR DWY-SA UP TO MCR 319-1)			1				D-3
28D5037-4	(FOR DWY-SA UP TO MCR 319-1)			1				D-4
28D5037-7	(FOR DWY-SA UP TO MCR 319-1)			1				D-4
28D1048				2				C-3
28D1044				2				C-3
28D1010				2				C-3
28D5069-10	(FOR DWY-SA MCR 319-1 & -41)			1				D-4
28D5058-5	0.040 6/8318 AL. 2450-00 A.R.			1				A-15
28D1011				4				A-13
28D5058-6				4				A-15
28D5057-1				4				A-15
28D1012				4				A-13
-34	0.063 6/8318 AL. 2437 W/ANGLE			2				A-14
-36	0.081/0.064 6/8318 AL. 2437 W/ANGLE			2				A-14
-39				2				D-5
-42				1				D-5
32D0224-11				1				D-5
	PARTS ASSEMBLED ON -42 SUB-ASS'Y.							

SEE SHEET 1

PART NO.	SYMBOL	MATERIAL	SPEC.	LH REQ'D -0	LH REQ'D -2	LH REQ'D -3	LH REQ'D -4	LH REQ'D -5
PARTS LIST PER ASSY				-0	-2	-3	-4	-5

AS				1/4"	1/4"			
ENGY				1/4"	1/4"	1/8"		
HEAT TREAT	FINISH			GAUGE	SPECIFIC	QUAL	APPROVAL	DATE

DRAWING PANEL ASSEMBLY-ENGINE COWL-RIGHT SIDE
DRAWING NO. 32D022 SHEET 2 OF 2

H 224

RZZ0026

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
Z	TRACED NO WT CHG	9-23-41	

Q4305-DB STITCH RIVETS AT ENDS OF ALL SPOTWELDED PARTS AS SHOWN, TO PREVENT SPOTWELDS FROM BREAKING LOOSE - RIVETS TO BE COUNTERSUNK ON SIDE WHICH COMES IN CONTACT WITH RUBBER STRIPS IN ALL CASES UNLESS OTHERWISE NOTED.

2 HOLES TO MATCH NUT PLATES IN 32D029

SPOT WELD TO -6

THE 3 HOLES IN THIS EDGE & THE 3 HOLES IN THE OPP. EDGE TO BE DRILLED AT INSTALL. TO MATCH 32D019

(.195 DIA. 10 HOLES)

FWD.

32D028 FIG. Q4303-403 AN960-416 (UNDERSIZE QTY -7)

STITCH RIVETS FOUR CORNERS

-20 (REF.)

-16 REF.

SECTION A-A

SECTION F-F

SECTION E-E

2 HOLES TO MATCH NUT PLATES IN 32D029

SEE NOTE #2

SECTION D-D

TRIM FLANGE OF -8 TO CLEAR 32D029

AFT

℄ ENGINE

℄ EYEBOLT

SECTION C-C
SCALE: 12" = 1'-0"
FOR -0 ASSY ONLY

SECTION D'-D'
SCALE: 12" = 1'-0"
FOR -2 ASSY ONLY

THIS CUTOUT IN -6 FOR LA 3135 SHIP ONLY. PER S.O. 83[illegible]

SCALE: 3" = 1'-0"

TYPICAL INSTALLATION FOR ALL RIVETS NOT IN CONTACT WITH RUBBER STRIPS.

SECTION D-D
SCALE: 12" = 1'-0"
FOR -0 ASSY ONLY

SECTION C'-C'
SCALE: 12" = 1'-0"
FOR -2 ASSY ONLY

NOTES
1. SPOTWELD ALL PARTS APPROX 1" SPACING.
2. LEAVE EXTRA MATERIAL & TRIM TO SUIT WARP COWL

PART NO.	STOCK	MATERIAL	SPEC.	-0	-2	-4	-6
				REQ	REQ	REQ	REQ
	PARTS LIST PER ASSY.						

A-C	CVAC ZF-32-001	SCALE	FULL
NAVY		WT/EA	3.5
HEAT TREAT	FINISH	DRAFT	CHECK

NAME: PANEL ASSEMBLY ENGINE COWL-UPPER

SIZE J | DWG NO. 32D024

H 225

R 32D024

NOTE:- SPOTWELD RING (B) ANGLES TOGETHER - SPACE APPR 1 1/4

SECTION B-B
SCALE: 12"=1'-0"

SECTION A-A
SCALE: 12"=1'-0"

DETAIL 'E'
SCALE: 12"=1'-0"

SECTION C-C
SCALE: 12"=1'-0"

VIEW J-J
-0 ASSY ONLY

VIEW D-D
SCALE 12"=1'-0"

DETAIL -33
SCALE: 3"=1'-0"

VIEW 'H'
SCALE: 12"=1'-0"

DETAIL -12 1/2 SHOWN OPPOSITE
SCALE: 12"=1'-0"

SECTION L-L
12"=1'-0"

SECTION K-K

REAR VIEW
SCALE 3"=1'-0"

DETAIL 'F'
SHOWING SPLICE DETAIL
SCALE 12"=1'-0"

DETAIL OF -34L
& (-34R OPP.)

DETAIL OF -57
SCALE 12"=1'-0"
ARMY SPEC. 11067 TYPE II

#1 OF 2 SHEETS (FOR -0 & -9, PACE ONLY)
NOTE: THIS BILL OF MATERIAL INCLUDES #2 OF 2 SHEETS

H 226

DWG	32D029
J	

FORMER ASSEM	32D029
ENG. COWL - REAR	J
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.	

LET	ALTERATION	DATE	BY
	REV. IT PLCS. WAS 6 I.A.C.S. YT LINE WAS 4.5-4	4-5-45	WILLIS
R	DETAILS 5 REQ'D X 8 (6) ADDED	9-8-45	WILLIS
	-5 & -7 WT. CHG. NEG.	9-8-45	WILLIS
S	D-D: REM'D NOTE "NAVY" - PASTE RECORD MATERIAL NOTE 1 & 2 A/R	9-8-45	WILLIS
	-357/16 WT. CHG. NEG.	9-8-45	WILLIS

LET	ALTERATION	DATE	BY
A	THIS SHEET 22 & 2 WAS DRAWN	10-6-45	WILLIS
	-98-84-4 REV (NOT -98-84-3 REV)	10-6-45	WILLIS
B	IN SECT B-B THRU -10 WAS 1/16	10-6-45	WILLIS
C	-64 WAS -8 PLCS	10-6-45	WILLIS
D	CHGD EXCEPT OF -8 ADDED HOLE & -9 WAS 10 DIA HOLE	10-6-45	WILLIS
E	-5 & -7 BOLT LOCATION & DIM WAS 16	10-6-45	WILLIS
F	PER ARW VIEW CHGD 7/16 DIA HOLES TO 9/16 DIA HOLES	10-6-45	WILLIS
G	IN SECT. DD -31, REMOVE 3/4 & 1/2 RADII, ADDED 5/16 R	10-6-45	WILLIS
	ADDED -1804-8 WAS -10 ANGLE TO DETAIL "E" ROTATED 2 - 45°	10-6-45	WILLIS
	WAS -8646-8 WT. CHG. NEG.	10-6-45	WILLIS
H	-724 5/8 WAS -12 1/4 AREA	3-22-46	WILLIS
	VIEW A-A, WT. CHG. NEG.	3-22-46	WILLIS
J	-203 WAS -6, NO WT. CHG.	3-22-46	WILLIS
K	ADDED 5 RIVETS AREA	7-27-46	WILLIS
	NO RIVETS - AREA	7-27-46	WILLIS
L	SEC B-B DIM 2 1/4 WAS 2 1/8 ADDED 1/8	9-9-46	WILLIS
	SEC A-A DIM 2 1/8 WAS 1/8 NO WT CHG		
M	-24, DIM 2 1/8 WAS 1/16 ADDED 1/16	10-10-46	WILLIS
	1/16 WAS 1/8 ADDED 1/16		
	READ 3/16, WT CHG NEG		
N	-14 REPLACED -101, WT CHG NEG	6-3-47	WILLIS
P	ADDED NOTE (FOR REF.) DRILL (4 ASSY) NO WT. CHG.	12-2-48	WILLIS
Q	REAR VIEW, DIM 10 1/8 WAS 9 1/8, CHG. NOTE 7 ATTACH		

NOTE: SPOTWELD RING ANGLES TOGETHER - SPACE APPROX 4 IN.

Q5550-8-19 (REF) · Q5550-6-17 (REF) · Q4308 AD4 FLUSH RIVET · JOGGLE · L&R (G) NAVY SPEC. 47A8 COND T (SPOTWELD) · NAVY N-11 · Q4308 AD4 (3¾" RIVET SPACE AT ℄) · CEMENT TO -101 · NAVY N-11 · (NAVY SPEC. 47A8 COND T) · Q4308-AD4 · NAVY SPEC. 47A8 COND T

SECTION B-B
SCALE: 12" - 1'-0"

REAR ANGLE | ON-4 ASSY | ON-2 ASSY | NAVY SPEC. 46A9 COND T

ON-4 ASSY, FRONT ANGLE | ON-2 ASSY | NAVY SPEC. 47A8 COND A

SEE DETAIL · 6PR

SECTION A-A
SCALE: 12" - 1'-0"

32D018 (REF) · -4 (REF) · -24¾ (REF) · -715 (REF) · -715 -716 (REF) · -16 (REF) · CUT OPPOSITE END, SAME

LOCATION OF INNER SIDE OF CBHL CHANNEL SUPPORT - 6¾ L-BAR.

LOCATE BAFFLES TO MATCH 32D024 (REF)

AC366-F1032 INSTALL NUT PLATES AT BOTH ENDS OF WEBS (-13) (4 REQ)

32D031 (REF) · NOTCH END 32D714 TO CLEAR -11 · NAVY SPEC. 47A8 COND T

SPACE (8) RIVETS AS SHOWN TO USE OLD RIVET

(NAVY SPEC. 47A8 COND T) · 2905018-L

24½ R (REF) · 24½ R. OUTSIDE RIM EDGE - 16 · 13° · 7¾

REAR EDGE · AN442 AD8 · Q4903-AD5 · AC366-F1032, Q4803-AD3

SECTION C-C
SCALE 12" - 1'-0"

-724 (REF) · DETAIL "E"

VIEW A-A

31M REF ℄ ARC · ENGINE

Q4903-AD5 RIVET · FLUSH RIVET W/38 INSIDE DUCT · -14 (REF.) · -10 (REF.) · -33 (REF.) · -27 (REF.) · -28 (REF.) · AN442-AD5 · 32D030 · 22¾ TO ℄ ENGINE

VIEW D-D
SCALE: 6" - 1'-0"

MATERIAL NOTE FOR -29
1. SAE 1060 OR SAE 1075 STEEL SHEET, SPEC. AN-QQ-S-698, CONDITION H.T. 95,000 TO 125,000 #/SQ IN. FINISH - C.P. INSULATE WITH ZINC CHROMATE PASTE.
2. CHROME-MOLY STEEL SHEET, SPEC. AN-QQ-S-685, COND. N-1, H.T. 90,000 TO 150,000 #/SQ IN. FINISH - C.P. INSULATE WITH ZINC CHROMATE PASTE.

-2 REF · -27 NAVY SPEC. 47A8 COND T · -10 (REF.) · FWD · -28 (REF.)

SECTION H-H
SCALE: 12" - 1'-0"

NAVY SPEC. 47A8 T · -23 · Q5550-8-9 · Q4903-AD5 RIVET · SPLICE · AN510-10-7 SCREW

DETAIL OF -24
SCALE: 12" - 1'-0" (NAVY SPEC. 47A8 COND. T)

NOTE: NO HOLES TO BE PUT IN 1 1/16 TAB AS SHOWN EFFECTIVE ON 116, 120, 121 (R3) SUBS. DELIVERIES

Q5880-8-19 CEMENT TO -16 · Q5850-6-15 CEMENT TO -16 · 4 - 1/4 HOLES FOR BONDING · -16 (REF.)

SECTION L-L
SCALE: 12" - 1'-0"

SEE DETAIL "E" · DRILL 1/4 HOLES AT 4 1/8 O.C. · 5 1/4 DIA HOLES TO MATCH COWL ATTACHING PADS ON ENGINE · DRILL (7 HOLES) THRU -24, -715, -716, -717, -722 (-723) (SINGLE HOLE USED) -9 ASSY ONLY · DO RIVETS OR SCREWS IN THIS AREA · -32 NAVY SPEC. 47A8 COND T · HORIZ. ℄ ENG.

NO RIVETS OR SCREWS IN THIS AREA.

Q5880-6-24 CEMENT TO -715 THRU -719 Q5850-4-9 · Q5880-4-24 CEMENT TO -717 (-719) Q5880-4-9

DETAIL "F" SHOWING SPLICE DETAIL
SCALE 12" - 1'-0"

AC366-F1032 Q4303-A03 · AN3-5A BOLT AC365-1032 NUT AN960-D10 WASHER · FOR -2 ASSY SEE REAR VIEW

5/16 RIVETS ATTACHING -713 THRU -719 -721 & 1723 ANGLES 17 PLACES

-719 ON-4 ASSY | -717 ON-2 ASSY | FRONT ANGLE (NAVY SPEC. 47A8 CORD A)

-716 ON-4 ASSY | -716 ON-2 ASSY | REAR ANGLE (NAVY SPEC. 46A9 CON'D T)

OMIT THIS BOLT ON -2 ASSY

SEE DETAIL "F" · BUTT JOINT · 12° 51' 26" · 38° 36' 17" · 24 R · 27 R · ARC. SYM. EXCEPT AS NOTED

-712 ON -4 ASSY | -710 ON -2 ASSY | REAR ANGLE (NAVY SPEC. 46A9 COND T)

DRILL 1/4 HOLES AT 1/2 EDGE DISTANCE & 1/2 SPACING THRU -721 -722 -723 FOR ATTACHMENT OF Q5850-4 · -712 -714 (REF.) · Q5850-4

SECTION K-K

Q5880-9 · Q5850-4-24 CEMENT TO -711 -713

REAR VIEW
SCALE: 3" - 1'-0"

DETAIL OF -45
SCALE: 12" - 1'-0"

#2 OF 2 SHEETS (FOR -2 & -4 ASS'YS ONLY)

NOTE: SEE #1 OF 2 SHEETS FOR BILL OF MATERIAL & REQ PER AIRPLANE & DETAILS & SECTIONS NOT SHOWN

H 227

ITEM NO.	MODEL	NOMENCLATURE	SPEC
-4	PRV-4A	2806000	2
-3	PRV-3A	2805000	2
-2	PRV-2A	2805002	2
-1	205AM10	2805000	2
-3	2A-3M5	2805000	2
-2	2A-2M5	2805000	2
-1	2A-1M5	2805000	2
-4	2A-4M6	2805000	2
-3	2A-3M6	2805000	2
-2	2A-2M6	2805000	2
-1	2A-1M6	2805000	2
-4	LB30	4320083	4
-3	PRV-3	2805000	3
-2	A-14A	4320083	4
-1	A-14	4320083	4
-3	AA-34	4320083	4
-2	AA-24	4320083	4

CONTINUED (-711) · CONTINUED FROM

DISCONTINUED PER AIRPLANE · EXPLOSION · REPLACED BY · ACT. QTY.

LIST IN ELECTRONIC VALUE · SCALE 3" = 1'-0" · # NOTED · STAMP PART NUMBER WHERE SHOWN

PART NO.	STOCK	MATERIAL	SPEC	LT	No.	LT	No.	LT	No.	LT	No.
PARTS LIST PER ASSY				REQ		REQ		REQ		REQ	
				-0		-2		-3		-4	

A.C. · NAVY · HEAT TREAT · FINISH · DRAFT · CHECK · STRUCT · MAT · STRESS · ENG

NAME FORMER ASSEM. - ENG. COWL - REAR

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

DWG NO. J 32D029

SEE SHEET #1

ADA 6467 · ADA 6468 · ADA 6469 · ADA 6470 · ADA 6471 · ADA 6472 · ADA 6473 · ADA 6474 · ADA 6475 · ADA 6476 · ADA 6477 · ADA 6478 · ADA 6479 · ADA

LET	ALTERATION	DATE	BY
AR	PHOTOTRACED	7-24-42	
AS	AN 5A7E-2E BRKTS	7-24-42	
AT	-23 ADDED NOTE	7-24-42	
AU	SAME AS --- EXCEPT W.T. CUS. REQ.	7-24-42	

THIS COMPENSATOR INSTAL. FOR PBY-2 AND PBY-3 (ASSYS -200, 201, & 202) ONLY

MAF213017-6 · MAF213018-6 · MAF213019-6 · MAF213028-6 · Var. TAKE COMPENSATOR E440 ATTACH TO BOX WITH AN525-10-9 · AN960-10 · AN364-10 · *MAF1003 3 HOLES THRU 3rd FROM COMPENSATOR

CONDUIT ¾ OD X .065 WALL AL. TUBE MIN. APPROX. 10" LONG.

DRILL 3 HOLES IN NEG OF SIDE

ON PBY-3 ONLY

DISTRIBUTION PANEL 28E2008 (REF)

DIST. PANEL

MAF 213017-3 · 213018-3 · 213028-3 · 213028-6 ONLY

MAF 213017-3 · 213018-3 · 213028-3 · 213028-6 PBY-2 ONLY

BLANK *

VIEW I FOR PBY-2 SHIPS 1-34 INCL. ONLY. SCALE 6" = 1'-0"

DRILL FOR ¼ RIVET, 2 HOLES

DETAIL SCALE = 12" = 1'-0" MATL = .032 ALCL. 24 S.T. SAE = 2-P-BWV

MAF 39955-1 GOV'T. FURN.

AC 816-6-24 · AC 1416-6 · Q6/1008-2.8 DRILL .261 (#4G), 1 HOLE

AC 816-6-16 DRILL .386 (#0), 8 HOLES

28E1144

2881400-1 (REF)

BLKHD WEB (REF)

VIEW G-G SCALE = 12" = 1'-0"

(36) REF

(34) REF

(40) REF

COMPENSATOR INSTAL FOR PBY-1 ONLY (-0 ASSY)

TRANSMITTER, VOLTAGE, COMPENSATING, RECEIVER ATTACH TO BLKHD WITH AN520-10-9 · AN960-10 · DRILL #6 (.204), 2 HOLES

28E1145-21 (REF)

MAF 213017-2 · 213018-2 · 213028-2 · MAF 213028-3

28E1145-33 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

MAF 213017-7 · 213018-7 · 213028-7 · MAF 213028-7

28E1145-37 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-38 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-39 (REF)

MAF 213017-2 · 213018-2 · 213028-2 · MAF 213028-3

28E1145-129 (REF)

Q 908A12-6 · MC 516-6-9 · AN 960-6 · AN 365-6 · AN 960-6

28E1145-378 (REF)

28E1145-129 (REF)

(39) ¾ OD X .032 AL. TUBE APPROX. 36" LONG

(38) REF

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

AN 960-6 · AN 960-10 · AN 960-10 · AN 960-10 · AN 960-10 · AN 960-10

(1 DIA.) MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-32 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-31 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-30 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-29 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-27 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-26 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

28E1145-25 (REF)

MAF 213017-6 · 213018-6 · 213028-6 · MAF 213028-6

DASH NO.	CALC WT	ACT WT
-1	.01	
-2	.01	
-3	.01	
-4	.01	
-5	.01	
-6	.01	
-7	.01	
-8	.01	
-9	.01	
-10	.01	
-11	.01	
-12	.01	
-13	.01	
-14	.01	
-15	.01	
-16	.003	
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-44	.01	
-45	.03	
-46	.01	
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-61	.01	
-62	.01	
-63	.01	
-64	.01	
-65	.01	
-66	.01	
-67	.01	
-68	0.118	
-69	.01	
-70	.01	
-71	.01	

LET	ALTERATIONS	DATE	BY
AU	TRACED NO WT CHG	4-30-63	[illegible]
AV	CORRECTED DWG TO ALL FOR 4 HOLES 11"-7 2.38 X 1 IN-8 2.3 IN-7 NO WT CHG	12-4-63	[illegible]
AW	REMOVE 3 RE VIEWED 9-30-64		
	1/2 X-TH ZONE D2 3/16 DIM WAS VIA ZONE F8 ADDED 3/16 DIM, ZONE E7 REMOVED VIA DIM ZONE A3 ADDED HOLE NO BLOCK ZONE B7 REVISED 1/8 DIM ZONE B6 ADDED 1/8 DIM ZONE E6 1/32 DIM WAS 7/16 & ZONE E2 1/4 DIM WAS 11/16 ZONE E4 1/32 DIM WAS 1/8 REMOVED NOTE "CADMIUM PLATE-QQ-P-416 TYPE II CLASS 2 .0002 MIN THICK"		
	AFTER DRILLING- ADDED ± 1/32 TOL. & 3/16 DIM. ZONE B-8. NO WT CHG	7-17-65	[illegible]

ALT	ALTERATIONS	DATE	BY

.140 DIA. 9 HOLES

DETAIL -70

DETAIL -20

.169 DIA. HOLES (-5-6-7 REF.)
.193 DIA. HOLES (-35 ONLY REF)

DASH	LGTH	NO. OF HOLES
-5	3 1/2	6
-6	2 1/2	3
-7	1 1/2	2
-35	3 1/2	4

DETAIL -5-6-7 & -35

DASH	LGTH	NO. OF HOLES
-2	5 7/8	10
-3	3 7/8	6
-4	1 7/8	2
-19	3 7/64	4
-24	2 1/4	3
-30	8 1/16	11
-60	1 1/4	2
-66	9 7/32	8

DETAIL -2, -3, -4, -19, -24, -30, -60, -66

DASH	LGTH
-11	2 3/32
-29	4 3/32

DETAIL -11-29

.1935 DIA. 2 HOLES

DASH	LGTH
-67	2 7/16
-10	3 1/16

DETAIL -67-10

.252 DIA HOLE
.193 DIA HOLE

DETAIL -25

.1/4 DIA HOLE

DETAIL -33

DETAIL -9

DETAIL -31

DETAIL -71-12

.169 DIA. 2 HOLES

DETAIL -51

DETAIL -13

DETAIL -14

.193 DIA HOLE
.140 DIA. 7 HOLES

DETAIL -36

DETAIL -55

.1/4 DIA HOLE
.193 DIA. 2 HOLES

DETAIL -34

DETAIL -21

DETAIL -8

DETAIL -69

.098 DIA. HOLE

DASH	LGTH
-18	1 15/16
-23	2 29/32

DETAIL -16

DETAIL -18-23

.204 DIA. HOLE
.172 DIA. HOLE

DETAIL -49

.140 DIA. 2 HOLES
.193 DIA HOLE

DETAIL -32

DETAIL -15

.125 DIA. 2 HOLES

DETAIL -50

.125 DIA. 2 HOLES

DETAIL -27

.193 DIA. 3 HOLES

DETAIL -28

.250 DIA. 2 HOLES

DETAIL -61

DETAIL -72

.193 DIA. 2 HOLES

DETAIL -73

DETAIL -26

STAMP (+)(-) DESIGNATIONS AS HIGH AS SHOWN

DETAIL -17
-22 OPPOSITE

DETAIL -65

NOTES:
1 ALL BENDS R EXCEPT WHERE NOTED.
2 ALL HOLES .169 DIA. EXCEPT WHERE NOTED.

FINISH CODE
2 ANODIC TREATMENT
F FSTM FINISH
CP UNITED PROCESS
C CADMIUM PLATE

| | | |

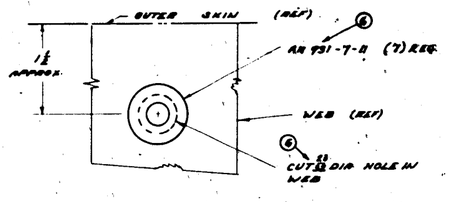
LET	ALTERATION	DATE	BY
A	TRACED	7-16-37	
B	INCREASED LGTH. OF FLEX COND. & ADDED 8 CLIPS ON FACE OF RIB NO. 1 CLIP IN B/M8 ATTACH. RIB PARTS. IN VIEW A-A 1½ DIA. WAS 1⅜. CHANGED TYPE OF CLIP USED. CHG. B/M: NAF1L0312-100 WAS -2-100, Q9308AL-8 (8) WAS Q9308DG-6 (7) AN815-6-8, AN340-6, AN936-6, AN960-6 (4 WAS 9)	9-18-37	
C	REMOVED 8 CONDUIT CLIPS. CHG. B/M: Q9008AG-8 (CHANGED TO 8) AN815-6-8, AN960-6-8 (5 WAS 6) AN936-6, AN960-6 (3 WAS 4) ADDED: NAF813672-25 TO FACE OF RIB 8.	9-28-37 9-28-37 9-28-37	
D	ADDED PBY-4 STATIC MOUNT ASSY. SECTION VIEW OMITTED FOR ALL MODELS	12-2-37	
E	ADDED NOTES TO "VIEW B"	1-4-38	
F	CHG. LENGTH OF NAF B1728-8 TO 20.00 (WAS 19.)	2	
G	CHG. ATTACHMENT OF NAF 38630-10 TO NAF 38630-8	2	
	ADDED HOLES AND CUT OUT IN RIB 8 FOR	2-4-38	
H	TAPING OF NAF 21302-1-108	4-12-38	
J	ADDED NOTE "SHALL BEAR ON STRUCTURE"	5-7-38	

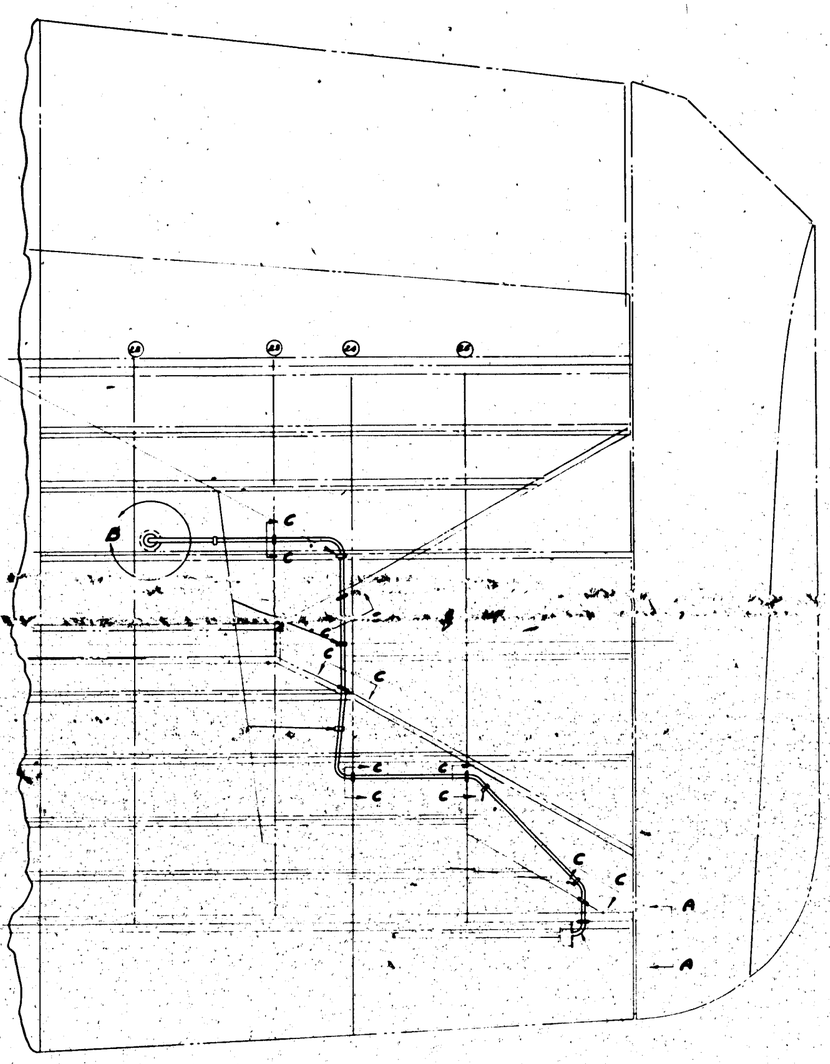
E.O. 2356/
E.O. 16828
BREWSTER III

E.D.C. 3-28-41
P.B.V.-5 [illegible]

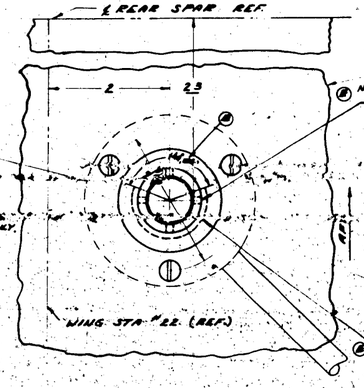
FERRULE & COUPLING NUT SHOULD BE INSTALLED AFTER CONDUIT IS IN SHIP

VIEW C-C
SCALE 12" = 1 FT.





Q 9308 A G - 8	(8)	
AN 815 - 6 - 8	(6)	
AN 340 - 6	(6)	
AN 960 - 6	(6)	
AN 936 - 6	(6)	



4 NAF 38C90-10 (1)
2 NAF 38C90-16 (1)
2 NAF 38C90-36 (1)
4 NAF 1068-17 (1)

NOTE: NAF 1068-17 IS G.F.N. FOR PBY-5 ONLY.

NOTE:
HOLES IN NAF 38630-10 TO BE AS SHOWN

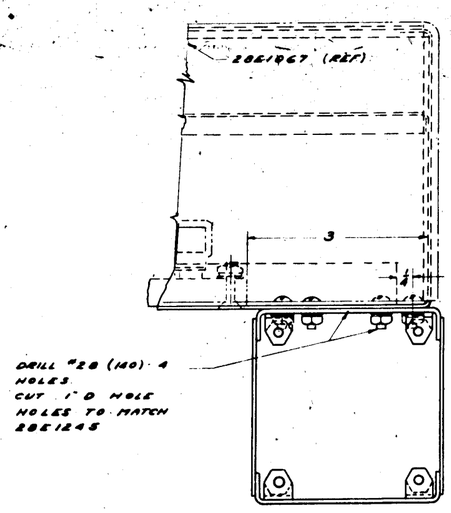
DRILL "28 (140) 3 HOLES EQUALLY SPACED

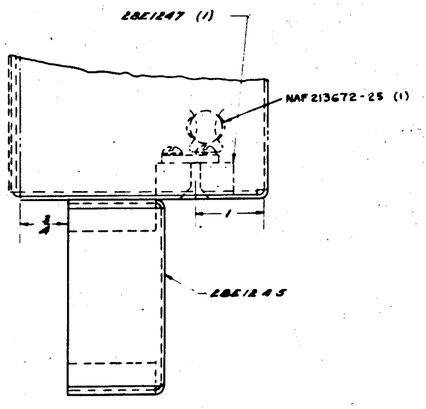
AN 815 - 6 - 8	(2)
AN 340 - 6	(3)
AN 960 - 6	(3)
AN 936 - 6	(3)

NOTE:
INSTALL REFLECTOR NAF 38630-16 SO THAT 140° CUT OUT IS FACING APT.

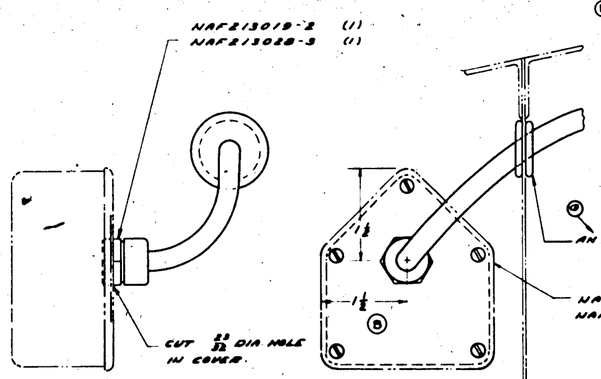
VIEW B
SCALE 12" = 1 FT.

FERRULE & COUPLING NUT SHOULD BE INSTALLED AFTER CONDUIT IS IN SHIP





INSTALLATION AT PILOT'S SWITCH PANEL
FOR PBY-1 ONLY
SCALE 12" = 1 FT.



VIEW A-A
SCALE 12" = 1 FT.

(B)
NAF 2130 21-2-108 (1)
NAF 2130 17-2 (1)
NAF 2-150 18-2 (2)

(H) NOTE: TAPE HIGH SPOTS OF NAF 21302-1-108 THAT LOOP AWAY FROM SKIN. TAPE FLEX WHERE MEMBERS ARE CROSSED

PARTS MARKED * ARE G.F.N.

THIS DWG COVERS CHANGE "A" ON PBY-1

TOGL USED ON PBY-1 ONLY

NAF	
21302-2-108	1
17-2	1
18-2	2
19-2	1
213028-3	1
38630-16	1
38630-10	1
38630-8	1
38630-36	1
1068-17	1

-L	INSTRUMENT	28E6582	1	
-L	INSTRUMENT	28E6584	1	
-R	INSTRUMENT	28E1015	1	
-R	INSTRUMENT	28E1015	1	
-R	INSTRUMENT	28E1015	1	
-R	PBY-4A	28E1015	1	
-L	PBY-5A	28E1015	1	
R	PBY-5	28E1015	1	
L	PBY-5	28E1015	1	
-J	PBY-4	28E1015	1	
	PBY-4	28E1015	1	
-J	PBY-5	28E1015	1	
	PBY-5	28E1015	1	
-L	PBY-5A	28E1015	1	
-L	PBY-5A	28E1015	1	
-L	PBY-5A	28E1015	1	
-L	PBY-5A	28E1015	1	
-J	PBY-5	28E1015	1	
	PBY-5	28E1015	1	
-J	PBY-5	28E1015	1	
	PBY-5	28E1015	1	
-R	PBY-5A	28E1015	1	
-L	PBY-5A	28E1015	1	

AN 931-7-11	1	
AN 340-6	3	
AN 960-6	3	
AN 936-6	3	

C-70686-77713-68676 #70-752
C-70686 & 68676 #70-750

(D)

REPLACES					
REPLACED BY					
		APPROVED		DATE	
		DRAFT.		ACT NO.	
		SCALE	12" = 1 FT.	SHEET NO.	
NAVY	NOTED				
MATERIAL					
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.					

G.N.	MODEL	NEXT ASSY.	REQ'D	PARTS LIST PER ASSY.
REQUIREMENTS PER AIRPLANE		MAT.		
SPEC.	NOTED	NAME		
	NEXT THDS'T		PATTERN	

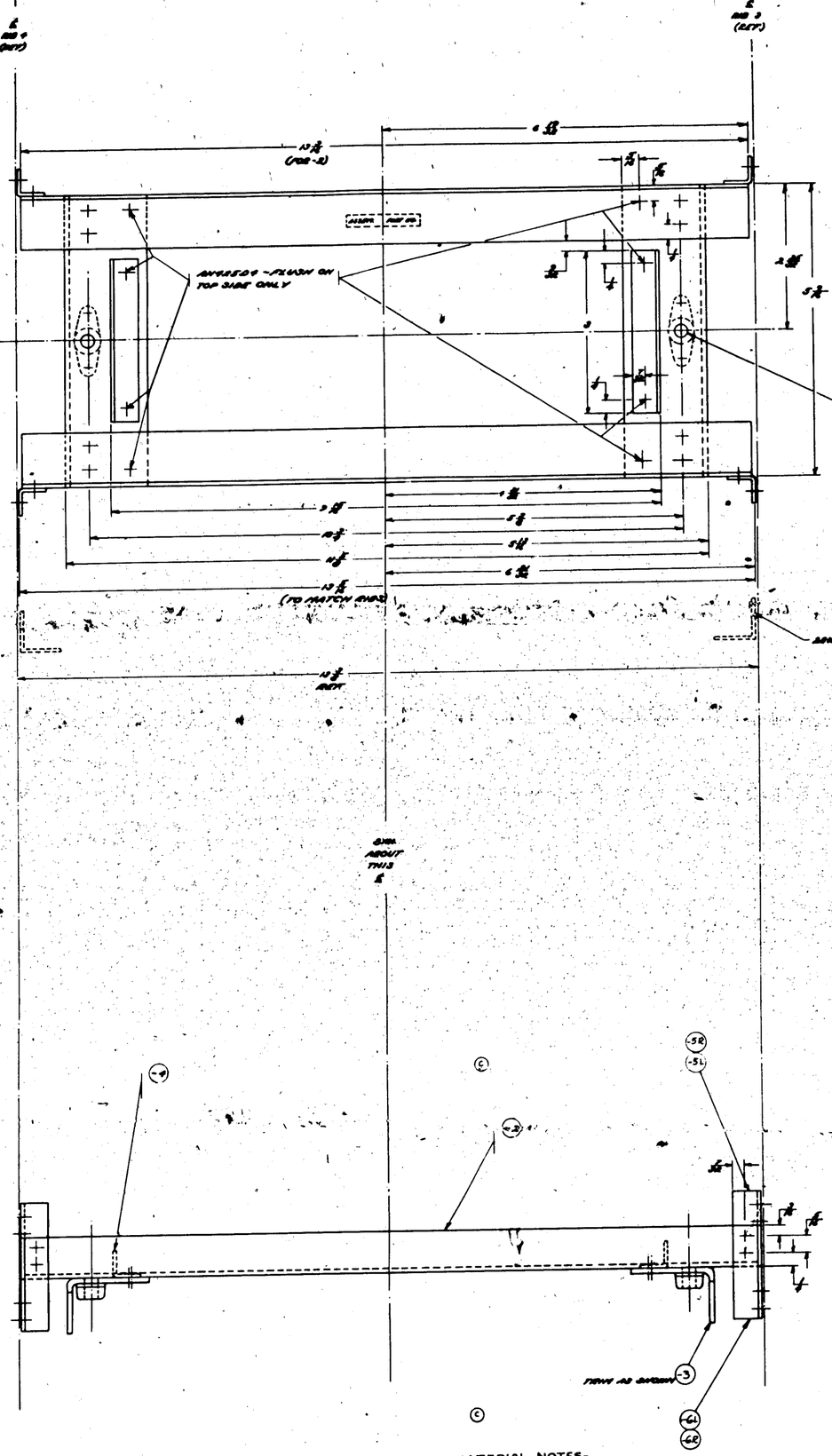
NAME: SOUND & LIGHT INST ELEC
FORMATION LIGHTS OUTER PANEL

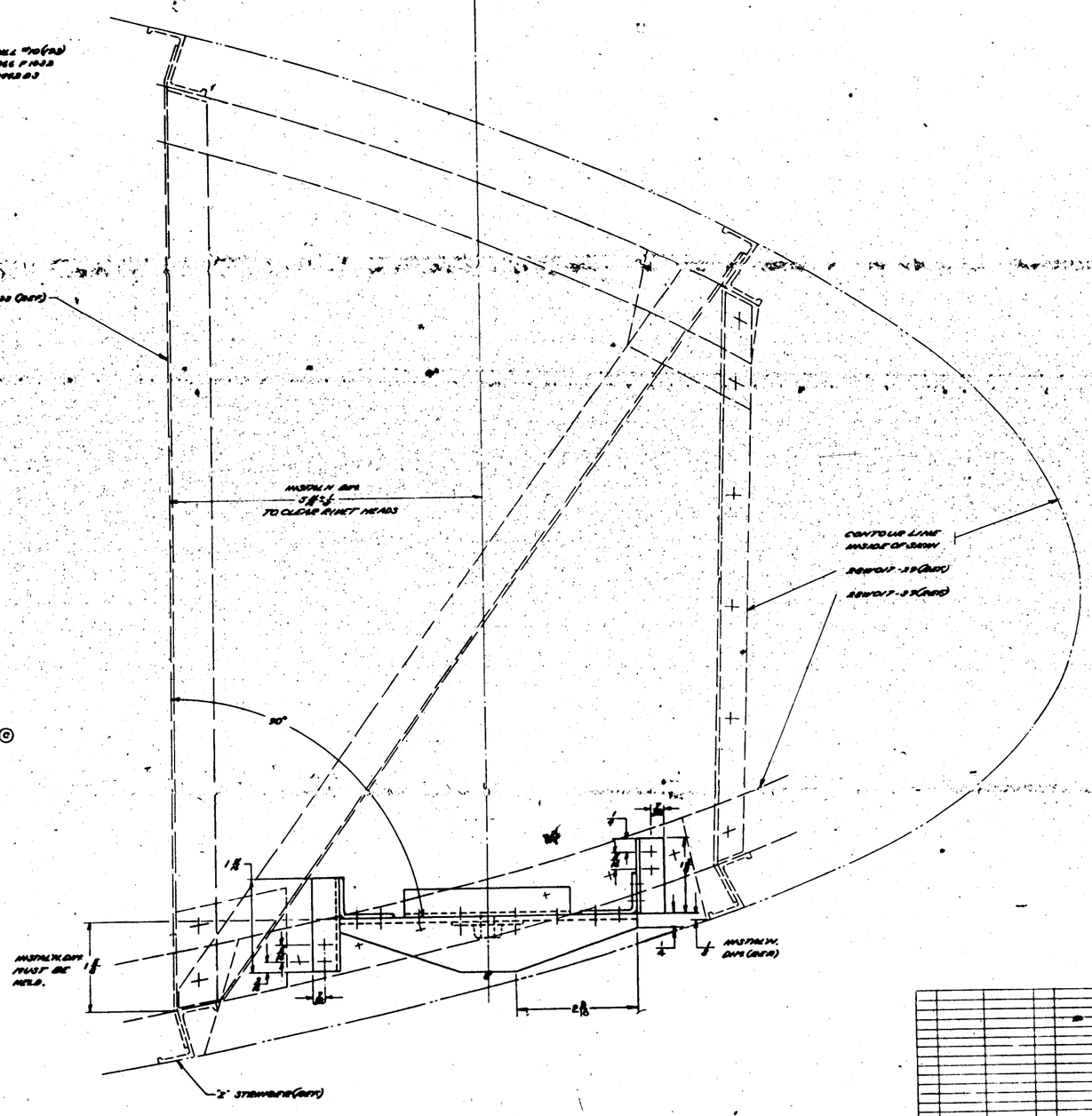
DRAWING NO. 28E1946

H 230

SUPPLIES & EQUIPMENT CLASSIFICATION

LET.	ALTERATION	DATE	BY
B	FORGED	2-1-43	C.H.
C	1-6L(2) & -6R(2) WERE -6(4), -5L(2) & -5R(2) WERE -5(4), REMARKED AS THEY DO NOT..... SPACING"		
	ADD. WT. 0.01 lb.	4-1-43	
D	ON PAGE NO. 2, REMOVED NOTE "3/16 AL. ALLOY KEY BASE ALCOA DIE ITEM SPEC. 4430-T, FOR -3, REMOVED "1/4 [illegible] AL. ALLOY KEY (MAT) ALCOA DIE [illegible], SPEC. 4430-T" & FOR -4, -5L-5R-6L & -6R REMOVED "3/16 [illegible] AL. ALLOY KEY (BASE) ALCOA DIE [illegible] SPEC. 4430-T" ADDED (MAT). NOTES (2) & (3)		
	(2) TO "A" INCL. WT. CHG. NEG.	5-4-43	TMC





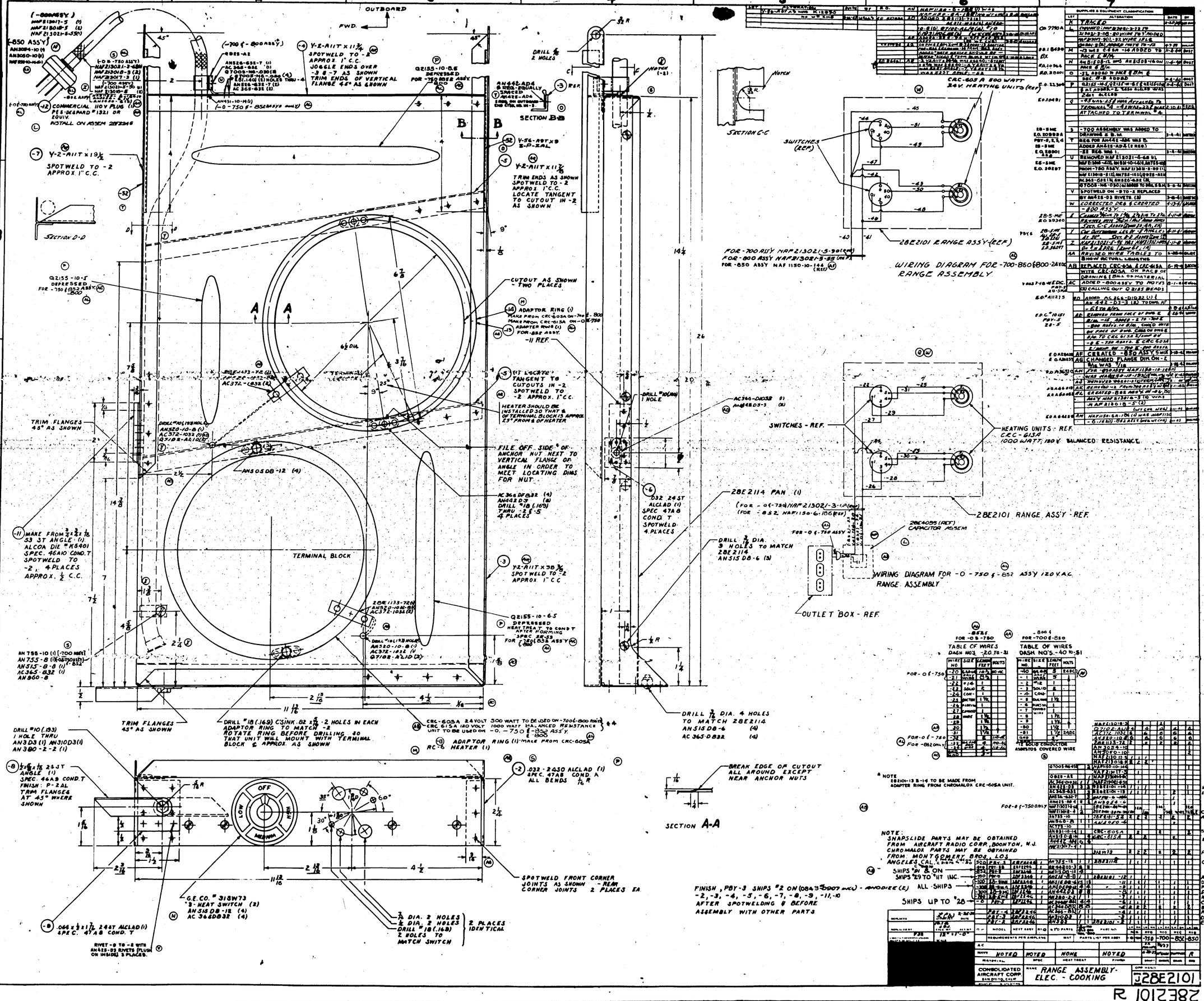
MATERIAL NOTES-

(D) 1-MAT'L. FOR -2 MAY BE-
(A) Y-6-A17T X 13 5/16, OR
(B) K1288 X 13 5/16, AL. AL. EXTR., SPEC. QQ-A-354-T.
2-MAT'L. FOR -3 MAY BE-
(A) Y-6-A77T X 5 11/16, OR
(B) K11636 X 5 11/16, AL. AL. EXTR., SPEC. QQ-A-354-T.
3-MAT'L. FOR -4 MAY BE-
(A) Y-2-A8T X 3 3/16, OR
(B) K78P X 3 3/16, AL. AL. EXTR., SPEC. QQ-A-354-T.
4-MAT'L. FOR -5L & -5R MAY BE-
(A) Y-2-A8T X 1 1/2, OR
(B) K78P X 1 1/2, AL. AL. EXTR., SPEC. QQ-A-354-T.
5-MAT'L. FOR -6L & -6R MAY BE-
(A) Y-2-A8T X 1 13/16, OR
(B) K78P X 1 13/16, AL. AL. EXTR., SPEC. QQ-A-354-T.

NOTE:
INSTALL'N. -1 AY SHOWN.
INSTALL'N. -1 AN OPP.
ALL RIVETS ARE AVIATION SMALLER STANDARD HOLES.
FINISH - 2-P-A.GRAY (CONT'D).
BOND MATERIAL AND PLATES UNTIL AFTER ASSEMBLY.

FINISH COL.
[redacted]
GRAY-BLK. ASPHALT VARNISH

| | | |


OUTBOARD
FWD.
SECTION B-B
SECTION C-C
SECTION D-D
SECTION A-A
TERMINAL BLOCK
TRIM FLANGES 45° AS SHOWN
SPOTWELD TO -2 APPROX. 1" C.C.
TRIM ENDS AS SHOWN SPOTWELD TO -2 APPROX. 1" C.C. LOCATE TANGENT TO CUTOUT IN -2 AS SHOWN
CUTOUT AS SHOWN - TWO PLACES
ADAPTOR RING (1) MAKE FROM CRC-605A ON -700 & -800 ASS'Y MAKE FROM CRC-615A ON -0 & -750 ADAPTER RING (1) FOR -852 ASSY.
-11 REF.
FILE OFF SIDE OF ANCHOR NUT NEXT TO VERTICAL FLANGE OF ANGLE IN ORDER TO MEET LOCATING DIMS. FOR NUT.
HEATER SHOULD BE INSTALLED SO THAT ⊕ OF TERMINAL BLOCK IS APPROX. 25° FROM ⊕ OF HEATER
DRILL #10(.193) 1 HOLE
DRILL 3/8 2 HOLES
DRILL 3/8 DIA. 4 HOLES TO MATCH 28E2114
DRILL 3/8 DIA. 3 HOLES TO MATCH 28E2114 AN515D8-6 (3)
DRILL #10(.193) 1 HOLE THRU AN3D3 (1) MN3D3D3(1) AN380-2-2 (1)
DRILL #10(.193 HOLE) AN520-10-8 (1) AC372-1033 (1) 47718-A210(1)
DRILL #18(.169) THRU 5/8-5 4 PLACES
DRILL #18(.169) CSINK .82 x 7/8 -2 HOLES IN EACH ADAPTOR RING TO MATCH -2. ROTATE RING BEFORE DRILLING SO THAT UNIT WILL MOUNT WITH TERMINAL BLOCK AS SHOWN
DRILL #18(.169) 2 HOLES TO MATCH SWITCH
2 PLACES IDENTICAL
SPOTWELD FRONT CORNER JOINTS AS SHOWN - REAR CORNER JOINTS 2 PLACES EA.
RIVET -8 TO -2 WITH AN428-D3 RIVETS (FLUSH ON INSIDE) 3 PLACES.
MAKE FROM 3/4 x 3/4 x 1/16 33 ST ANGLE (1). ALCOA DIE "K5401 SPEC. 46A10 COND. T SPOTWELD TO -2, 4 PLACES APPROX. 1/2 C.C.
-700 & -800 ASS'Y
-850 ASS'Y
COMMERCIAL 110V PLUG (1) PER DEPARTMENT 1321 OR EQUIV. INSTALL ON ASSEM 28E2246
-700 ASSEMBLY
-0 & -750 ASSEMBLY
-852 ASSEMBLY
-800 ASSEMBLY
-0 & -750 ASSEMBLY
-852 ASSEMBLY
-700 & -800 ASSEMBLY
-0 & -750 & -

LET	ALTERATION	DATE	BY
A	REVISED & ADDED -2 ASSY MTG. HOLES, ADDED RIBS FOR ADD'L RIGIDITY		
B	CHANGED MATERIAL -3 (.125 GAGE) TO -2 (.093 GAGE) & ADDED -3 ASSY	5-24-54	
C	CHANGED TO 0.062" (1.57) WAS 0.094" (2.39) PER E.O.A. 49416	10-7-54	
D	ON PARTS LIST CRC-603A REPLACES CRC-603A, CRC-603AC & 603A WHICH ARE OBSOLETE. ADDED NOTE 8	3-24-55	
E	DELETED -0 & -2 ASSY TITLES & ADDED -1 ASSY TITLE	9-29-55	
F	ADDED -1 ASSY PARTS & ELEMENTS -1 ASSY ADDED -3 NOTE, ADDED NOTE TO -2 ASSY & NOTE 8	9-29-55	
G	NOTE SHOULD NOT HAVE BEEN ADDED. NOTE 8 DELETED. (E.O.A. 49779)	10-10-55	
H	ON FACE 2 DIM. ADDED "6 & ON FACE 3 DIM. ADDED "16 DESPARD "1321" PLUG(1) FOR -0, 1, -2 ASSYS.	10-10-55	
J	2 DIA WAS 2 3/4, 1 DIA WAS 1 7/16	11-1-56	
K	DIM WAS 1/16, 3/4 WAS 1 (2.5) ADDED TRIM FLANGES 45° WAS 90°	11-8-56	
L	TRIM FLANGES 45°	1-7-58	
M	ADDED CRC-603A REPLACES CRC-603A	2-3-58	
N	DIM WAS 1/16 (INCLUDE CHG)	3-4-58	
P	ADDED -4 (0) & -5 (-1) ASSY'S	3-5-58	
Q	REVISED PER MANUFACTURING (CHG'S 1 ASSY ONLY) WT. (0 ONLY)	3-6-58	
R	ADDED WIRE (0 ASSY ONLY)	3-24-58	

E.O.A. 49779 — P.D.Y.-5A, GA-40, 5B-6AMC

E.O.A. 49416 — P.B.M.-5A, E.O. A49779 — GA-40 5B-6AMC

P.B.Y.-5A E.O. A49779 — GA-40 5B-6AMC

E.O. A49779 — P.B.Y.-5A GA-40 5B-6AMC

E.O.A. 49779

E.O. A51292

E.O. A49403

E.O. A39533

DRILL "18 (.169) C'SINK 82° x 3/8" Ø 2 HOLES IN EACH ADAPTOR RING TO MATCH -8 ROTATE RING BEFORE DRILLING SO THAT UNIT WILL MOUNT WITH TERMINAL BLOCK E APPROX. AS SHOWN

(D) MONEL 80-MESH CENTER SCREEN (2) CRC-603A CHROMALOX ASSEMBLY (2) UNIT 3 PER ASSEMBLY C-63A ADAPTOR RING (1) RC-6 HEATER (1)

LIGHTENING HOLE Q 10.5 - 3.375 3/8 DIA BLANK (REF) 2 PLACES IN -9 (C)

DRILL "10 (.162) - 3 HOLES

CUT-OUT IN -9

AN 505-08-10 (4)

TERMINAL BLOCK (SEE NOTE 3) (E)

TERMINAL BLOCK (SEE NOTE 3) (E)

STOVE E

GE. CO "31SA 73 (1) 3 HEAT SWITCH AN 515 DB-12 (2) AC 365 DB 32 (4) AN 960 DB (4)

"10 (.162) - 2 HOLES TO MATCH SWITCH

1/4 DIA - 2 HOLES

7/16 DIA - 2 HOLES

TRIM FLANGES 45° AS SHOWN

BREAK EDGE OF CUTOUT ALL AROUND EXCEPT NEAR ANCHOR NUTS

SECTION C-C (E)

(M) -0 ASSY: "10 (.193) 1 HOLE — Q 908-AB (1); AN 526 D 0832-8 (1); AC 365 D 832 (1); AN 960 A 10 (1)

(M) -2 ASSY: Q 908-A12 (1); AN 526 D 0 1032-8 (1); AC 365 D 1032 (1); AN 960 A 10 (1)

CUTOUT AS SHOWN 2 PLACES

-6 SUB-ASSEMBLY

AN 515 DB-7 (10)

AC 366 DF 832 (74); AN 442 D 3 (28) FLUSH ALL RIVETS ON OUTSIDE

NAF-213017-3 — -0 ASSY ONLY: NAF 213021-3-34 (1); NAF 213019-3 (2)

-2 ASSY ONLY: NAF 213017-5 (1); NAF 213018-5 (2); NAF 213021-5-62 (1)

P & S DESPARD "1321 PLUG (1) (FOR -0 ASSY ONLY) (F)

SECT. B-B

NOTES

ALL BEND RADII EQUAL 1/16

NOTCH -9 TO PROVIDE SCREW CLEARANCE (E)

"8 B (.140) (3) HOLES THRU - 6: AN 526-632-7 (1); AC 365-632 (2); AN 960 A6L (4)

AN 526-632-7 (1); AC 365-632 (1); AN 960 A6L (2)

1 DIA HOLE IN -7 NOTCH BUT -9 & -12 TO MATCH HOLE IN -7 (F)

Q 926-A3 ON -2 ASSY ONLY

#10 (.193) 1 HOLE — -0 ASSY: Q 908-A8 (1); AN 526 D 0832-8 (1); AC 365-D 832-8 (1); AN 960-A8 (1)

-2 ASSY: Q 908-A12 (1); AN 526 D 0 1032-8 (1); AC 365-D 1032 (1); AN 960 A10 (1)

SECT A-A

WIRE TABLE — -0 ASSY

DASH NO'S	SIZE A/P	LENGTH FEET	VOLTS
-20	2	8	110 AC
-21	2	7	
-22	#14 SOLID	1	
-23	CONDUCTOR	1	
-24	ASBESTOS	1	
-25	COVERED	1	
-26	WIRE	1	
-27		1	
-28		1	
-29		1	
-3C		1	
-31		1	
-32		15	

WIRE TABLE — -2 ASSY

DASH NO'S	SIZE A	LENGTH FEET	DC VOLTS
-40	8	7	24
-41	8	6	24
-42	#12 SOLID	1	24
-43	CONDUCTOR	1	24
-44	ASBESTOS	1	24
-45	COVERED	1	24
-46	WIRE	1	24
-47		1	24
-48		1	24
-49		1	24
-50		1	24
-51		1	24

SWITCHES (REF)

HEATING UNITS (REF) CRC-60 5A 1000 WATT - 110 VOLT AC (D)

CAPACITOR 28E4055 (REF)

Q 6201 - 3 TERMINALS (2) DRILL TO 1/4 HOLES

WIRING DIAGRAM FOR -0 RANGE ASSEMBLY

HEATING UNITS CRC-60SA 300 WATT 24 VOLTS (REF.) (D)

WIRING DIAGRAM FOR -2 RANGE ASSY

NOTE: (D) CRC 60 SA 24 VOLT 300 WATT TO BE USED ON -2 ASS'Y. CRC 60 SA 110 VOLT 1000 WATT BALANCED RESISTANCE UNIT TO BE USED ON -0 ASS'Y. 3. TERMINAL BLOCK E & F STOVE E COINCIDE, WITH THE TERMINAL STRIPS FACING INWARD.

PART NO.	DESCRIPTION	MATERIAL	QTY
28E4056-1	-0 ASSY		1
-1	-1 ASSY		1
-2	-2 ASSY		1
-12	3/4 x 3/4 x 1 1/2	ALCLAD	6 1/4 REQ
-11	Y-Z-AIIT x 10 1/2		1
-10	Y-Z-AIIT x 3.75		1
-9	.032 x 14	AL-CLAD	6 1/4 REQ
-7	.032 x 3.5	AL-CLAD	6 1/4 REQ
28E4055-5	SUB-ASSEMBLY		1
A.E.-2031	SWITCH 3 HEAT SWITCH		1
P&S DESPARD	#1321 PLUG		1
24C-10 5A	110 VOLT 1000 WATT BALANCED RES.		1
24C-10 5A	SPECIAL 500 WATT 24 VOLT CIRCUIT		1
Q 908-A12			2
Q 908-A8			2
24201	3 TERMINAL		2
29258			1
29258A1			1
MS 21002-42			1
MS 21002-4631			1
MS 21011-3			2
MS 21011-5			1
MS 21011-7			1
AN 960-10L			2
AN 960-8			2
AN 960-8AL			2
AN 960-10			2
MS 21001-03-34			1
MS 21002-3-12			1
MS 21042-4-5-7			1
AN 515-12			1
AN 515-08-7			10
AN 960-10			8
AN 6203			3
AC 1455-01-32			2
-2	28 SAMP	28F4182	1
-2	28-3AMC	28F4182	1
-0	PDT-3A	28F4182	1
AC 1455DF 32			14
AC 1455DB 32			8
AC 1455-032			3
28E4055			1
-BOTTOM-31	INCL. SEE WIRE TABLE		1
-BOTTOM-32	SEE WIRE TABLE		1
-9	0.75 x 2.13 x 1/2	AL-CLAD	6 1/4 REQ
28E4055-1	SUB ASS'Y.		1

FINISH: Z ANODIC TREAT; P PAINT FINISH; AP ALUMINIZED PRIMER; C CADMIUM PLATE

88-10026 — SR-53 — Z P-2 AMS

NAME: RANGE - ASSEMBLY ELEC - COOKING

LOCKHEED AIRCRAFT CORP. Burbank, Calif.

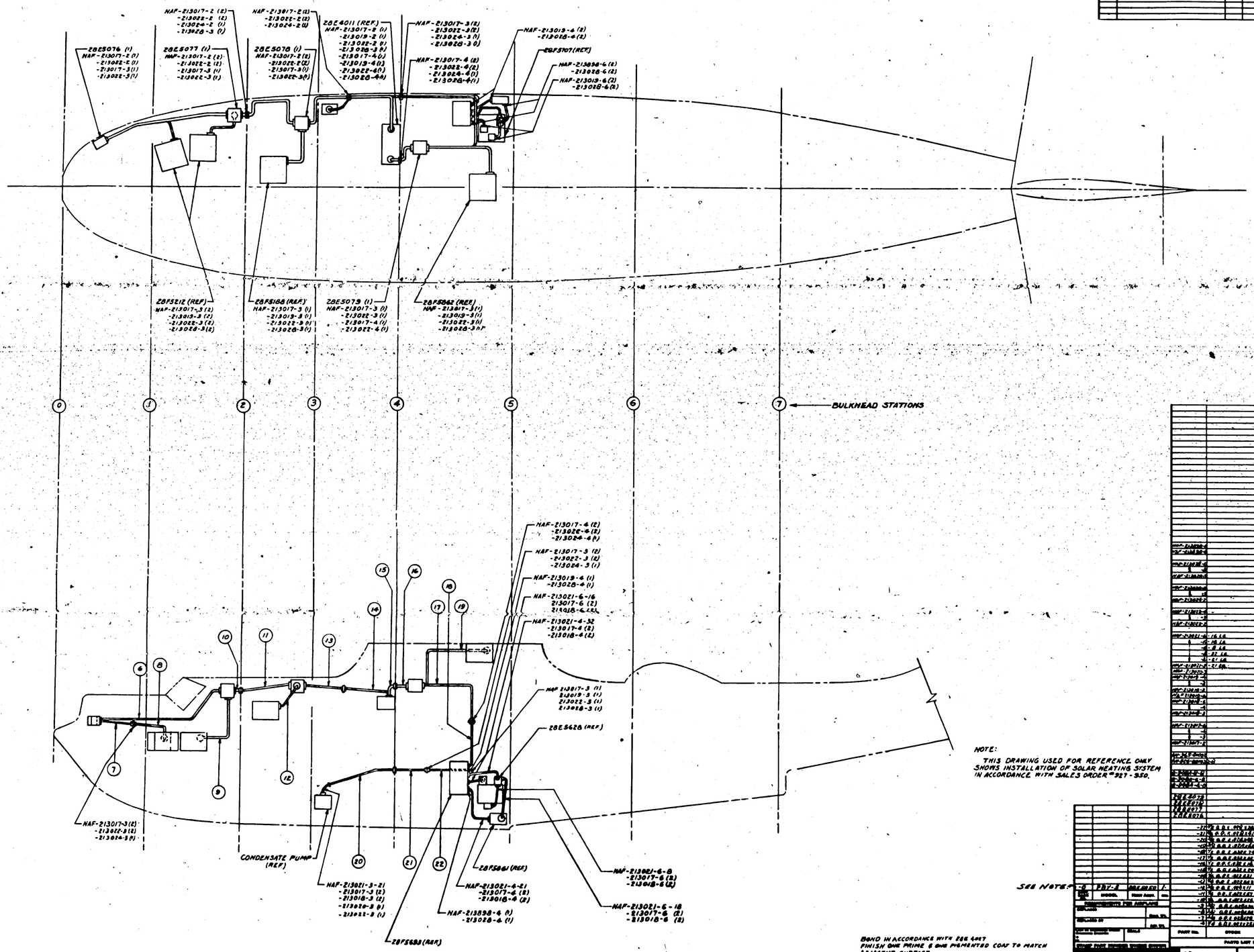
SIZE: J — DWG. NO.: 28E4056 — REV: R

H-233

LET	ALTERATIONS	DATE	BY
P	ANA-14 WAS ANA-6A		
	WT. CHANGE NEG.	9/64	OBRIEN
Q	ANGLE -641 WAS AN526-664		
	-7 NEW'LY CHANGE	9/64	OBRIEN
R	CORRECTED "MAKE" FOLLOWS:		
	"BOMBARDIER BOOK OF PARTS"		
	"BOMBARDIER STANDARDS" FROM		
	"BOMBARDIER ARDEE FORTSMITH"		
	TO "BOMBARDIER ARDEE"		
	WT. CHG. NEG.	9/64	OBRIEN
S	ADDED CANOUTS FOR 0908-AB-8, 0910-DIO-10, AC312-D1032, AN960-A10L. NO		
	VARIOUS CHANGE	9/64	OBRIEN
T	ADDED RU245, 3 ELBOW HOSE ASS'Y. ALSO ADDED		
	FOR -50 & -60 ASSYS. NEW DIM.	9/64	OBRIEN
U	CREATED -854 -90 ASS'YS		
	ADDED 28E5044-504-60 ON		
	-504-60 ASS'YS RESPECT.		
	TO FACE. WT. 9.22 WAS 7.02	2/65	MILLER
V	ADDED AN 3106-12S-3S(1)		
	WT. CHG. NEG.	2/65	MILLER
W	ADDED DETAIL "A" FOR -50-60 -85 & -90 ASSY. NO WT. CHG.	3-23-	[illegible]
X	CREATED -92 & -93 ASSY WT. CHG. NEG.	3-29-65	[illegible]
Y	AN3420-10L(2) WAS AN960-10L AN960A10L(1) NO WT CHG.	2-23-65	[illegible]
Z	CREATED -946 -93 ASSYS WT. CHG. NEG.	5-27-65	[illegible]
AA	CREATED -946-91 ASSY WT. CHG. NEG.	5-27-65	[illegible]

LET	ON FACE ADDED NOTE, "ALSO FOR -854 ONLY" & "IN THIS ASSY ONLY"		
AB	WHEN [illegible] ONLY. ADD "-50 & -60 ASSYS." NO WT. CHG.	12-8-65	[illegible]

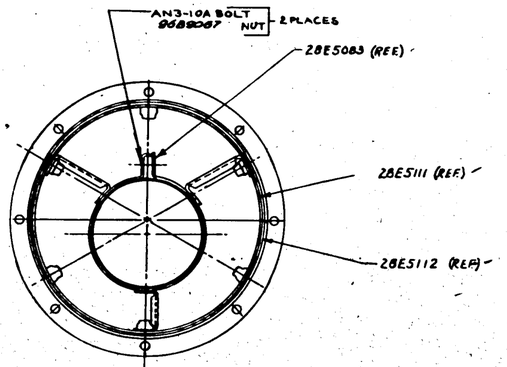
LET	ALTERATIONS	DATE	BY
A	ADDED 0908-AB-8(1)		
B	ADDED AC365-D1032(1)		
C	ADDED AN526-D1032-8(1)		
D	ADDED AN960-A10L(1)		
E	ADDED AN3420-10L(2)		
F	ADDED AN960A10L(1)		
G	ADDED AN960-10L(1)		
H	ADDED AN960-A10L(1)		
J	ADDED AC365-1032(1)		
K	ADDED AN960-A10L(1)		
L	ADDED AN960-10L(1)		
M	ADDED AN960-A10L(1)		
N	ADDED AN960-10L(1)		
P	ADDED AN960-A10L(1)		
Q	ADDED AN960-10L(1)		
R	ADDED AN960-A10L(1)		
S	ADDED AN960-A10L(1)		
T	ADDED AN960-A10L(1)		
U	ADDED AN960-A10L(1)		
V	ADDED AN960-A10L(1)	


NAF-213017-2 (2)
-213022-2 (2)
-213024-2 (1)
-213028-3 (1)
NAF-213017-2(2)
-213022-2(2)
-213024-2(2)
28E4011 (REF.)
NAF-213017-2 (1)
-213019-2 (1)
-213022-2 (1)
-213028-3 (1)
-213017-4(1)
-213019-4(1)
-213022-4(1)
-213028-4(1)
NAF-213017-3(2)
-213022-3(2)
-213024-3 (1)
-213028-3 (1)
NAF-213017-4 (2)
-213022-4(2)
-213024-4(1)
-213028-4(1)
NAF-213019-4 (2)
-213028-4(2)
28E5076 (1)
NAF-213017-2 (1)
-213022-2 (1)
-213017-3 (1)
-213022-3 (1)
28E5077 (1)
NAF-213017-2 (2)
-213022-2 (2)
-213017-3 (1)
-213022-3 (1)
28E5078 (1)
NAF-213017-2(2)
-213022-2(2)
-213017-3(1)
-213022-3(1)
28F5107(REF)
NAF-213858-4 (2)
-213028-4(2)
NAF-213019-4(2)
-213028-4(2)
28F5212 (REF)
NAF-213017-3(2)
-213019-3 (2)
-213022-3(2)
-213028-3(2)
28F5188 (REF)
NAF-213017-3 (1)
-213019-3 (1)
-213022-3 (1)
-213028-3(1)
28E5079 (1)
NAF-213017-3 (1)
-213022-3 (1)
-213017-4 (1)
-213022-4 (1)
28F5843 (REF)
NAF-213017-3(1)
-213019-3(1)
-213022-3(1)
-213028-3 (1)
0
1
2
3
4
5
6
7
BULKHEAD STATIONS
NAF-213017-4 (2)
-213022-4 (2)
-213024-4 (1)
NAF-213017-3 (2)
-213019-3 (1)
-213022-3 (1)
-213028-3 (1)
28E5628 (REF.)
NAF-213017-3(2)
-213022-3 (2)
-213024-3 (1)
NAF-213019-4 (1)
-213028-4 (1)
NAF-213017-4 (2)
-213022-4 (2)
-213024-4 (2)
NAF-213019-4 (2)
-213028-4 (2)
NAF-213017-4 (2)
-213022-4 (2)
-213024-4 (1)
NAF-213021-4-32
-213017-4 (2)
-213018-4 (2)
NAF-213021-6-16
213017-6 (2)
213018-6 (2)
NAF-213017-3 (1)
-213019-3 (1)
-213022-3 (1)
-213028-3 (1)
NAF-213017-3(2)
-213022-3 (2)
-213024-3 (1)
CONDENSATE PUMP (REF.)
NAF-213021-3-21
-213017-3 (2)
-213018-3 (2)
-213020-3 (1)
-213022-3 (1)
28F5693(REF.)
28F5681 (REF.)
NAF-213021-4-21
-213017-4 (2)
-213018-4 (2)
NAF-213858-4 (1)
-213028-4 (1)
NAF-213021-6-8
-213017-6 (2)
-213018-6 (2)
NAF-213021-6-16
-213017-6 (2)
-213018-6 (2)
NOTE:
THIS DRAWING USED FOR REFERENCE ONLY
SHOWS INSTALLATION OF SOLAR HEATING SYSTEM
IN ACCORDANCE WITH SALES ORDER #927-350.
BOND IN ACCORDANCE WITH 28E4067
FINISH ONE PRIME & ONE PIGMENTED COAT TO MATCH
ADJACENT SURFACE.
SEE NOTE 4
CONDUIT INSTALL.-ELEC.
SOLAR HEATING SYSTEM
CONSOLIDATED AIRCRAFT CORP.
28E5080
J

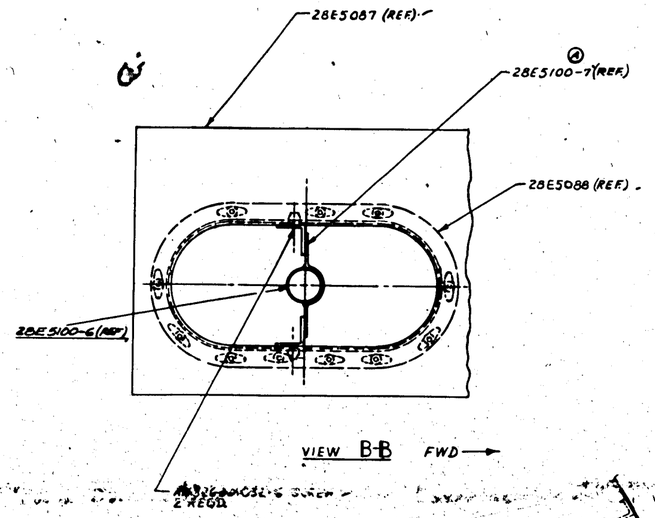
H 235

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	ADD 28E5100-7 (REF) AND WELDED YEARPK. DELETE 28E5100-6	6-14-41	EDC				

E.D.C. PETERSON 5-17-41

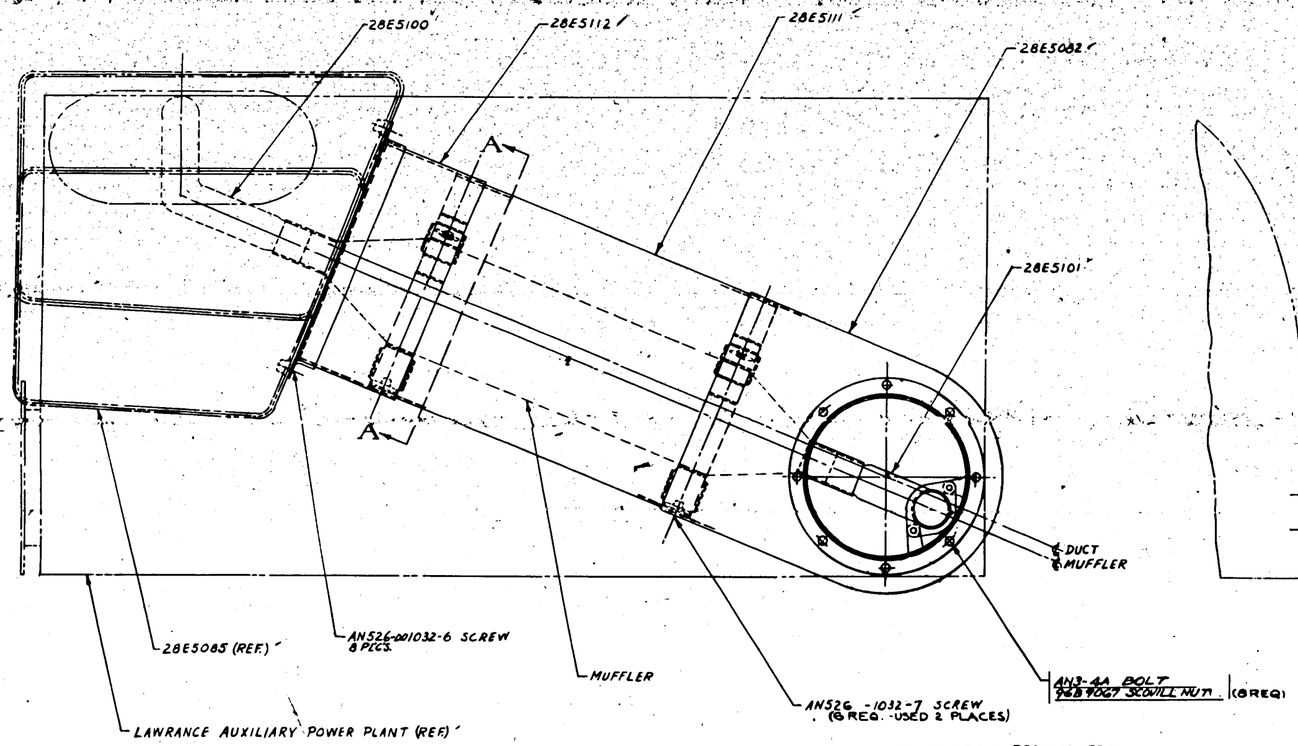


SECTION A-A



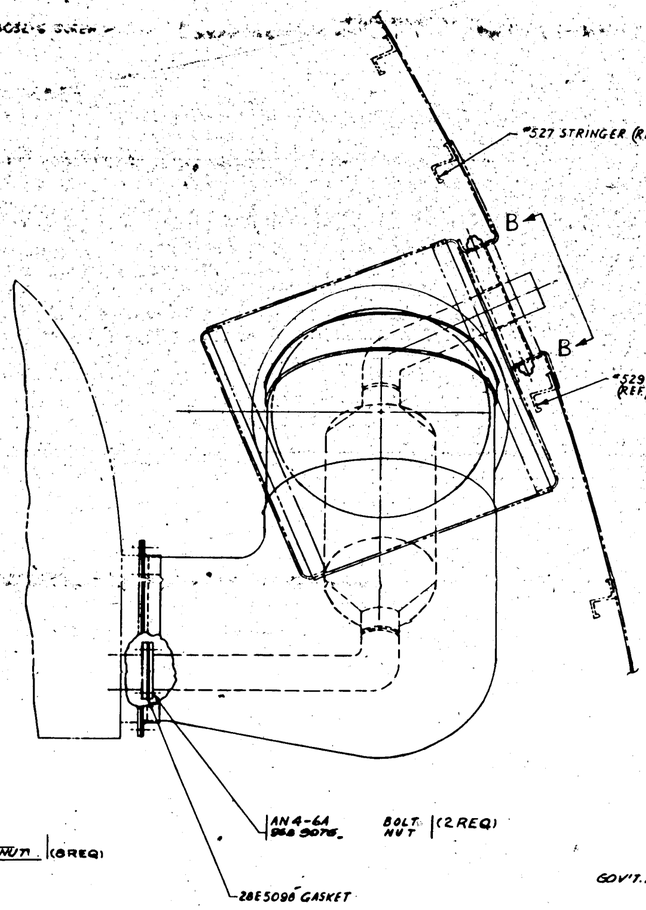
VIEW B-B FWD

GENERAL NOTES:-
1. USE PROPER INSULATION BETWEEN ALL DISSIMILAR METALS.



LOOKING OUTBOARD

INSTALLATION PROCEDURE 1-
1. FASTEN 28E5101 TO POWER PLANT FLANGE (REF)
2. SLIP 28E5082 ELBOW OVER 28E5101, BUT DO NOT SECURE TO POWER PLANT (REF)
3. INSTALL FURNISHED MUFFLER IN 28E5111 DUCT & SECURE IT.
4. SLIP 28E5112 COLLAR OVER 28E5111 UNTIL IT IS APPROX. EVEN WITH UPPER END OF 28E5111.
5. SLIP 28E5082 ELBOW APT. UNTIL HAND CAN GUIDE & SUPPORT 28E5101 INTO MUFFLER. POWER PLANT ENCLOSURE MUST NOT BE DEFORMED BY ANY PRESSURE FROM THIS OPERATION.
6. SLIP 28E5082 ELBOW OVER 28E5111 & SECURE ELBOW TO POWER PLANT & 28E5111.
7. SLIP 28E5100 INTO MUFFLER & ATTACH TO NULL OPENING 28E5088 (REF).
8. SLIP 28E SHR UP AND/OR 28E5085 (REF) & SECURE IT TO 28E5111 & 28E5085.



LOOKING FORWARD

NAVY NO. 2405-2485 INCL
Contract Change "X"
SO. 136-49

H 236

| | | | |

LTR	ALTERATION	DATE	BY
A	CHANGE (20) STANDOFF BSS(5) REPLACE SUBSTITUTE TYPE BSS(5) (20) (25) (26) & ADDED (4) (6)		
B	ADD TO PACK OF ADD & DEL THE FOLLOWING (RELAY ASSY) (SEE NOTE) ADD TO PACK & DEL (PLUG ASSY) (SEE NOTE)	7-24-44	
C	CHAD LOCATION OF PANEL ON (REF 2282) DWG 2" WAS 9/16 RENAMED 2 REFER-TO D/V DWG	7-14-44	
D	REMOVED DRAWING & BOM TO TABLE WITH AN AMPLIFIER	7-24-44	
E	ADDED PARTS 28-8 (5) TO PACK DWG & BOM.	7-24-44	
F	ADDED 28E5127-11(2) 28E (SIZE 1-18) (UNIFORM-LOAD) ADDED AN3506A-(8) AN3506A-(5) ADDED LITTEL FUSE CLIPS (1) AN526D0428-28 AC4 D932 (4)	9-14-44	
G	CHG QTY 34 TO 12	9-14-44	
H	ADDED NOTE #1 WT. CHG N/A	9-28-44	

EO A6496
PBY-5 2406-2965 INC.

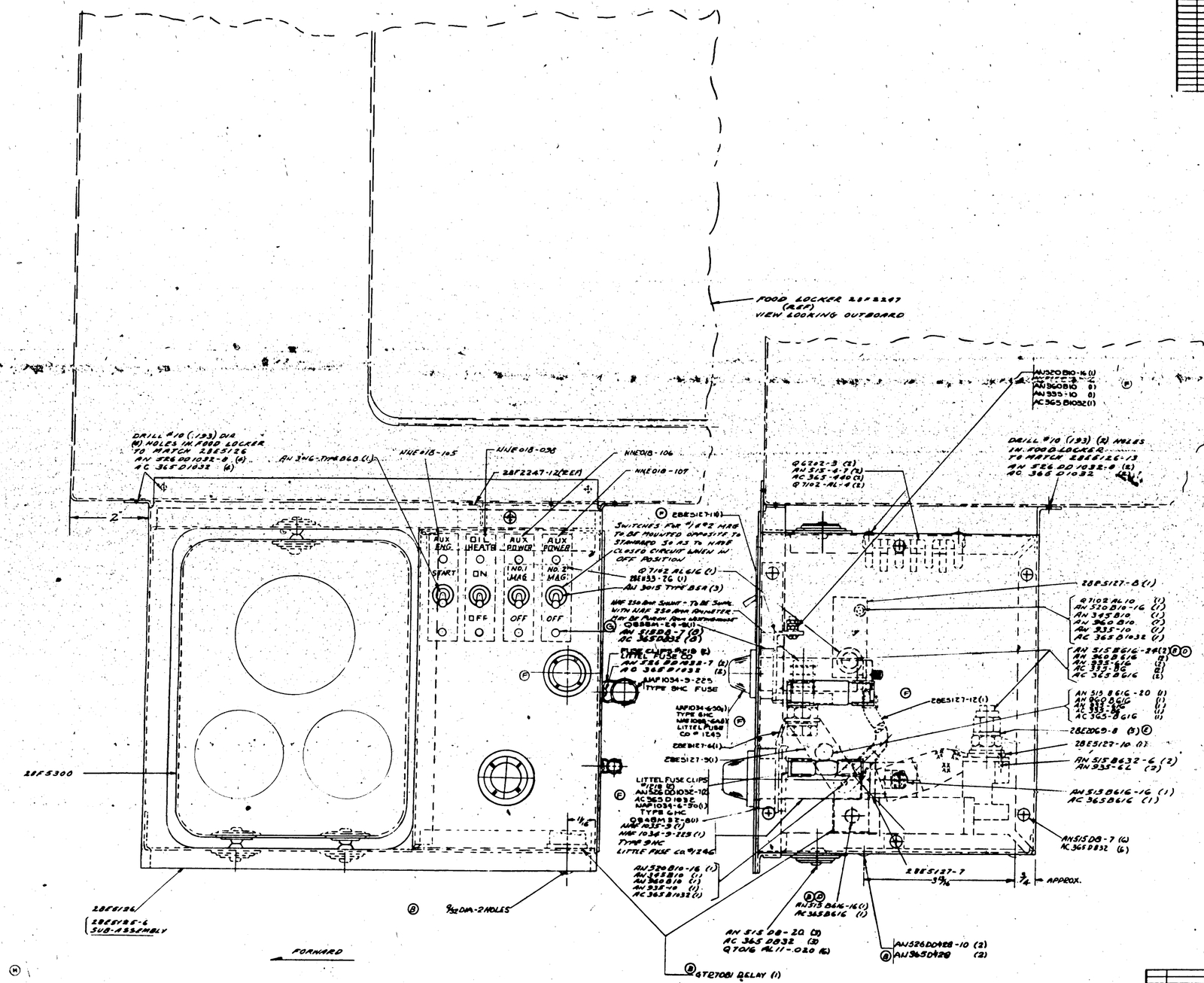
EO A6932
PBY-5 2406-2962 INC.

EO A6475
PBY-5

EO A6504
PBY-5 2406-2965

EO A6503

EO A6502



NOTE #1
IT IS PERMISSIBLE TO USE THE FOLLOWING PARTS AS ALTERNATE:

AC338-6 TO REPLACE	AC335-B6
AC348-616	AC 365 B616
AN348-10	AN 345 B10
AN515-616-24	AN515 B616 24
AN960-10	AN960 B10
AN960-616	AN960-B616
AC348-1032	AC 365 B1032
AN515 632 6	AN515 B632-6
AN515-616-20	AN515-B616-20
AN320-10-16	AN320-B10-16
AN515-616-16 TO REPLACE	AN515-B616-16

CONTR. 70496, SHIPS 110-167
Curtiss Cuac X
S.O. 936-49
AIRPLANES #2406 TO #2465 INC.

PART No.	STOCK	MATERIAL	SPEC.
PARTS LIST FOR ASSY.			

LIST No.									
REQ'D									
-0	-2	-3	-4	-6					

A/C			
UNIT	NONE	FINISH PER BAC SPECIFICATION	
HEAT TREAT		FINISH	

NAME A35K & MISC. ELEC. CONT. PANEL LAWRENCE AUX. PWR. UNIT

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG. NO. 28E5125

H 237

LET	ALTERATION	DATE	BY
A	CHAR MATL OF -7 TO SPEC 4130 1/4HR WAS SPEC 8630 CADT	3-14-41	ELAY
B	ADDED (2) DIA HOLES IN -8 (3) PER E.O. A 9722	7-8-41	MLHE
C	ADDED (2) DIA HOLES IN -8 PER E.O. A 9722	7-8-41	MLHE
D	ADDED & REVISED "B & C" ON FACE AS PER E.O. A 9788	7-11-41	MLHE
E	ADDED (2) DIA HOLES IN -8 PER E.O. A 9722	7-21-41	MLHE
F	ADDED (2) DIA HOLES IN -8 PER E.O. A 9722	7-21-41	MLHE
G	ADDED 1/8 DIA HOLE ON -6 PART & DIM FOR LOCATION AROUND (B)	8-15-41	HORN
H	CHANGED NOTE TO READ "SHIP WT. 11# 2 OZ"	11-24-41	

PBY-5 E.O. A11930

E.O. A15431

SECTION 'B-B'

DRILL #10 (.193) DIA (6) HOLES

-8 FINISH ZP

2 LENGTH OF SPOT WELD SPACED 1 APART

LOAD SIDE UP

Ⓔ 1 3/32 DIA HOLE NAF 213019-5 (1) 213023-5 (1)

Ⓔ 1 3/32 DIA HOLE NAF 213019-5 (1) 213028-5 (1)

Ⓕ 3/32 DIA HOLE NAF 213019-3 (1) NAF 213028-3 (1)

Ⓔ 2 3/32 DIA HOLE NAF 213019-12 (1) 213028-12 (1)

6 LENGTH OF SPOT WELD SPACED 1 APART

8 ± 1/64

6 1/4 (REF)

AN 442 AD4 RIVETS (4) PLACES

LOAD SIDE UP

LORD MFG. CO. "SK 659-1M (3) SHOCK MOUNTS AN 442 AD4

9 LENGTH OF SPOT WELD SPACED 1 APART

Ⓔ "31 (.120) DIA. (2) HOLES

2 1/4

1 5/16

FINISH ZP -7

"18 (.169) DIA. (6) HOLES AC 366 OF 832 (6) AN 426-AD3

2 3/32 DIA. HOLE NAF 213019-12 (1) 213028-12 (1)

7 7/8 ± 1/64

"10 (.193) DIA HOLE IN BOX TO MATCH 28E6127-8 REMOVE FINISH 3/16 RADIALLY AROUND HOLES

3/32 DIA HOLE

"10 (.193) DIA (6) HOLES TO MATCH HOLES IN BOX

Ⓖ "10 (.193) DIA. 4 HOLES

SPARE FUSE

STENCIL 1/4 BLACK LETTERS

-10 FINISH ZP END COVER

NOTE: ALL BEND RADII & RELIEFS 1/8

SECTION A-A

-9 FINISH ZP

DRILL 1/16 DIA 1 HOLE

AN 442 AD4 RIVETS (4) PLACES

DRILL #30 (.128) (4) HOLES FOR AN 442 AD4 RIVETS

AN 442 AD4 RIVETS 8 PLACES

Ⓒ 5/32 DIA (2) HOLES

1/16 HOLE FOR CLEARANCE

11 3/8

"18 (.169) DIA (8) HOLES Ⓓ

1/2 DIA (4) HOLES

Ⓖ 1/4 DIA HOLE

1 1/8 DIA. HOLE

Ⓗ SHIP WT 8 OZ

-6 FINISH ZP - AND PAINT DULL BLACK

RUSH RELEASED 6/4/41

SK 652-1M LORD MFG. CO. SHOCK MT. 3

PART NO	STOCK	MATERIAL	SPEC	NO REQ -0	-2	-3	-4	-5
-8	.05 x 8 x 7 1/4	ALCLAD	27687	1				
-9	.064 x 12 x 2 7/8					1		
-5	.064 x 12 x 2 7/8				1			
-7	.05 x 10 x 3 1/4						1	
28E5126-6	.064 x 10 x 12 1/4	ALCLAD	27687					1

PARTS LIST FOR ASSY.

A C NAVY SR-53	NOTED	TYPE OF AIRCRAFT	
HEAT TREAT	FINISH	DRAFT	CHECK

NAME: BOX & PANEL: ELEC LAWRENCE POWER UNIT CONTROL

CONSOLIDATED AIRCRAFT CORP. San Diego Calif.

SIZE J — DWG NO. 28E5126

H 238

E.O. A34603

E.O. 164895

E.O. A57018

NWE 018-106
NWE 018-107

NWE 018-098 (1)
NAF 1037-3 (1)
AN 3015 TYPE B5A (1)

SWITCHES FOR "#4 MAG TO BE MOUNTED UPSIDE DOWN SO AS TO BE MOUNTED UPSIDE DOWN SO AS TO HAVE CLOSED CIRCUIT WHEN IN OFF POSITION

2BE1133-4
AN 3015 (2)
AN 315-6-7 (6)
AC 365-632 (6)
2BE5139 (1) See Note

WAF 1068-20 (1)
WAF 1056-17 (1)

DETAIL-A-FOR-2E-4 ASSY Ⓓ

FOOD LOCKER 2BF2247 (REF)
VIEW LOOKING OUTBOARD

"10 (.193 DIA) 4 HOLES IN FOOD LOCKER TO MATCH 2BE5139 (REF.)
Q5106 D10-8 (4)
AC365 D1032 (4)

NNE 018-098
NAF 1037-3
AN3016-TYPE B6B
NNE 018-105
NNE 018-106
NNE 018-107

SWITCHES FOR "#2 MAG TO BE MOUNTED UPSIDE DOWN SO AS TO HAVE CLOSED CIRCUIT WHEN IN OFF POSITION

Q7102 AL6/6

2BE1133-4
AN3015 TYPE B5A (2)

AN315-8-7 (2)
AC365-832 (2)
Q838M32-8

FUSE CLIPS 1218 (2)
NAF 1036-6-50 (2) ON-1
NAF 1036-6-125 (2) ON-2
Q5106 D10-7 (2)
AC 365 D1032 (2)
NAF 1035-9
NAF 1036-9-225 (2)
(TYPE 9 MC FUSE)
FUSE CLIPS "129 (2)
LITTEL FUSE CO.

2BE5141-6
NAF 1095-6A

Q838M-24-8
2BE5141-7 ON-1
2BE5141-13 ON-2
NAF 1091C-240 AMP SHUNT TO BE SUPPLIED WITH NAF 103C-240 AMP AMMETER

Q7R 7081 RELAY

2BF5300

6508A-9(11) BOND BRAD

Q5106 D10-12 (2)
AC365 D1032 (2)

2BE5141-9

AN520-B10-16 ON-2
AN335-10
AN365-B10
AN960-B10
AC 365-B1032

FRONT VIEW

Ⓒ PSSC. 88 C-1300
THERMOCOUPLE CONNECTOR (REF.)

Q6202-3
AN515-6-7 (2)
AC365-440 (2)
Q7102-AL-6 (2)
ON-0 & -3 ASSY

"10 (.193) 2 HOLES IN FOOD LOCKER TO MATCH 2BE5139 ON-0 ASSY.
Q5106 D10-8 (2)
AC 365 D1032 (2)

2BE5139-2 ON-2 ASSY.
2BE5139-3 ON-3 ASSY.
2BE5139-4 ON-4 ASSY.

2BE5141-8

Q7102 AL10
AN520 B10-16
AN365 B10
AN960 B10
AN935-10
AC 365 B1032

AN515 B6/6-24 (2)
AN960 B6/6 (2)
AN935-6/16 (2)
AC 935-B6 (2)
AC 365 B6/6 (2)

Ⓖ Q6202 F-9 (1)
AN515-4-6 (2)
AC365-440 (2)
Q7102-AL-4 (2)
2 ASSY ONLY

Q6202-2 (1)
AN515-4-6 (4)
AC 365-440 (4)
Q7102-AL-4 (4)
ON-0 & -3 ASSY
Ⓐ

2BE2049-8
2BE5141-10
AN5188-6 (2)
AN535-6L (2)

Ⓒ PSSC. 88 C-1300
THERMOCOUPLE CONNECTOR (1)
AN 315-632-B (2)
AC 365-632 (2)
FOR -2 & -4 ASSYS

Q6202-4
AN515-4-6 (2)
AC 365-440 (2)
Q7102-AL-4 (2)
ON-2 ASSY. Ⓑ
& -4 ASSY.
AN515-8-7 (6)

AN515 B6/6-16
AC365 B6/6

Q5106 D4/6-10 (2)
AC365 D428 (2)

AN526-D832-10 (3)
AC 365-D832 (3)
Q7106-AL11-020 (6)

SIDE VIEW COVER REMOVED

FORWARD

NOTE-1. "SHELLAC 2BE5960 (REF.) TO INSIDE OF BOX COVER AND COVER WITH SHELLAC. FOR -2 ASSY."

NOTE-2.
IT IS PERMISSIBLE TO USE THE FOLLOWING PARTS AS ALTERNATES—

AC 335-6	TO REPLACE	AC 335-B6
AC 365-1032	TO REPLACE	AC 365-B1032
AC 365-6/6	TO REPLACE	AC 365-B6/6
AN 345-10	TO REPLACE	AN 345-B10
AN 515-6/6-16	TO REPLACE	AN 515-B6/6-16
AN 515-6/6-24	TO REPLACE	AN 515-B6/6-24
AN 520-10-16	TO REPLACE	AN520-B10-16
AN 960-10	TO REPLACE	AN 960-B10
AN 960-6/6	TO REPLACE	AN 960-B6/6
AN 515-6-6	TO REPLACE	AN 515-B6-6

Ⓔ

ASSY	WT
-0	6.40#
-2	7.65#
-3	8.25#
-4	7.62#

CONTRACT "91876-4 FOR SHIPS "306 & ON
CONTRACT "91876-3 FOR SHIP "20 ONLY
CONTRACT "91876 SHIPS "91 TO "345
Contract "91876 Ships 1-89

G.F.E: Ⓕ #2346-BB-C-1300 THERMOCOUPLE CONNECTOR

Q6202-4					1		1		
AN515-6					4		4		
G.T.R. 7081 (RELAY)					1		1		
FUSE CLIPS (LITTEL FUSE CO. 1218					2		2		
FUSE CLIPS (LITTEL FUSE CO. 1218					2	2	2		
NAF 1091C-240 AMMETER SHUNT SUPPLIED WITH AMMETER					1		1		
NAF 1068-20					1		1		
NAF 1056-17					1		1		
NAF 1037-3					1		1		
NAF 1036-6-50 TYPE 6 MC					2		2		
NAF 1036-6-125 TYPE 6 MC					2		2		
NAF 1035-9					1		1		
NAF 1036-6-225 TYPE 6 MC					1		1		
NWE 018-098					2		2		
NWE 018-106					1		1		
NWE 018-107					1		1		
AN 4-4-6					2		2		
AN 318-D833-18					3		3		
AN 515-8-7					16	10	16	10	
AN 515-6-7					2		2		
AN 315-632-B					8		8		
AN 6227 B6/6-16					2		2		
AN 6227 B6/6-24					2		2		
AN 4227 D/6					2		2		
AC 365-632					8		8		
AC 365 D1032					10		10		
AC 365 B6/6					2		2		
AC 365 D428					2		2		
AC 365 B1032					2		2		
AC 365-440					2		2		
AC 335-B6					4		4		
AN 345 B10					1		1		
AN 960-B6/6					2		2		
AN 960 B10					2		2		
AN 3016 TYPE B5A					1		1		
AN 3016 TYPE B6B					1		1		
Q5106 D10-7					2		2		
Q5106 D10-8					6		6		
Q5106 D10-12					2		2		
Q5106 D416-10					2		2		
Q7102-AL6/6					1		1		
Q7102-AL10					1		1		
Q7102-AL-6					4		4		
Q7106-AL11-020					6		6		
Q838M32-8					1		1		
2BE1133-4					1		1		
2BE5139-3					1		1		
2BE5139-4					1		1		
2BE5960					1		1		
Q838M32-8					1		1		
2BE5141-7					1		1		
2BE5140					1		1		
2BE5141-13					1		1		
2BE5141-6					1		1		
2BE5141-8					1		1		
2BE5141-9					1		1		
2BE5141-10					1		1		
2BE2049-8					1		1		
2BE1133-6					1		1		
2BE5139					1		1		

PART NO.	STOCK	MATERIAL	SPEC	LIST MAT'L QUAN.	LIST MAT'L QUAN.	LIST MAT'L QUAN.	LIST MAT'L QUAN.	LIST MAT'L QUAN.
				PARTS LIST PER ASSY.	-0	-2	-3	-4

AS					
PART NAME	PANEL ON BOX DETAIL				
HEAT TREAT	FINISH				

NAME ASSY & INST. ELEC-CONTROL PANEL
LAWRANCE AUX POWER UNIT

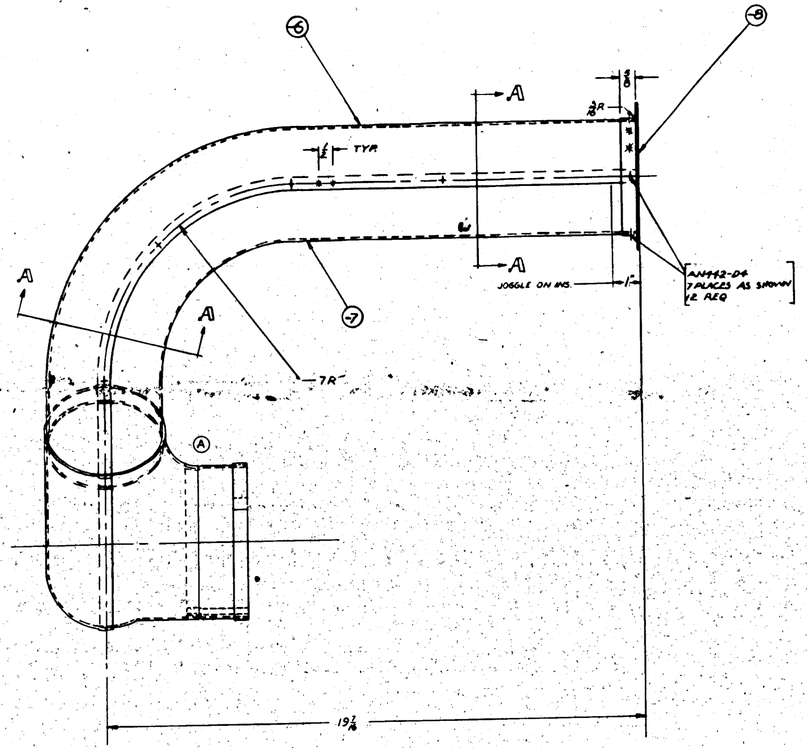
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

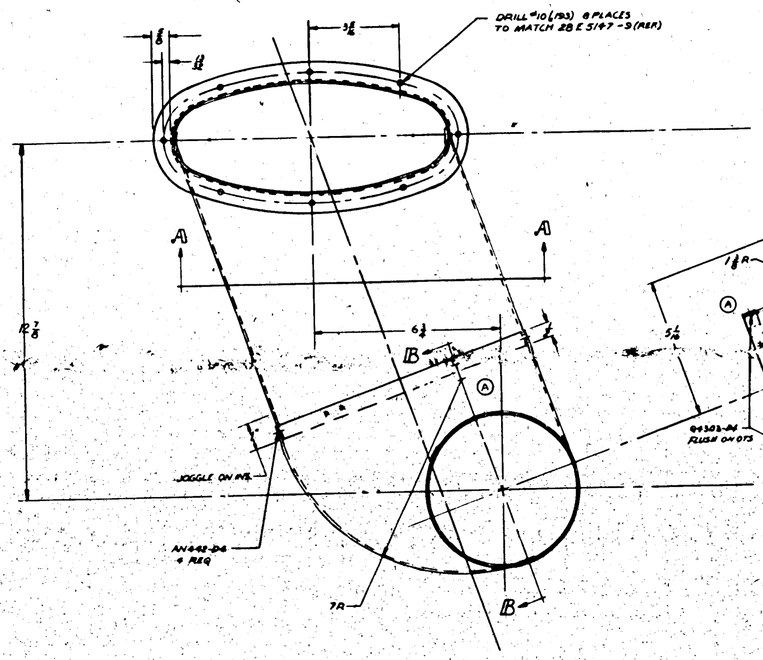
SPEC NUMBER NONE
SIZE J
DWG NO. 28E5140

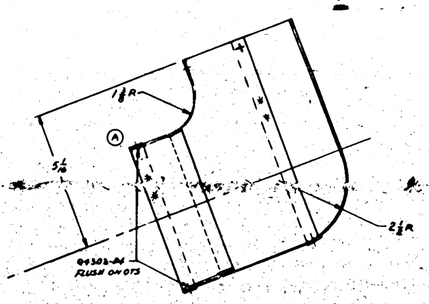
H 239

28E5140

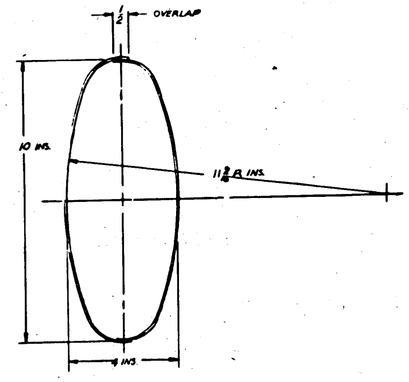
LET	ALTERATION	DATE	BY
A	S146-402-12 ADD DIM 10±.1 & S/N 20 & WAS 7 WT 4.76 LBS		





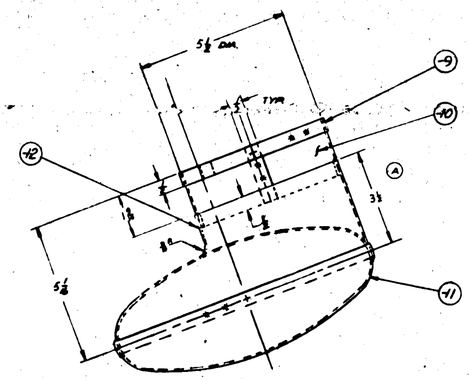


SECTION B-B



SECTION A-A

TYPICAL CROSS SECTION IN PLANE SHOWN



✳ SPOTWELDING SYMBOL
THIS SYMBOL INDICATES SPOTWELDING RIVETS ARE NOT INDICATED ON THIS DRAWING BY SYMBOLS

PART No.	STOCK	MATERIAL	SPEC.	REQ.	REQ.	REQ.	REQ.	REQ.
	PARTS LIST PER ASSY.			-0	-3	-4	-5	-8
-1	R0503161610	AIC245047AB-A		1				
-10	0450X13417	AIC245047AB-A			1			
-11	0450X13422	AIC245047AB-A				1		
-8	0450X13418	AIC245047AB-A					1	
-9	0450X13419	AIC245047AB-A						1
-12	0450X13421	AIC245047AB-A		1	1	1	1	1
-13	0450X13423	AIC245047AB-A		1	1	1	1	1

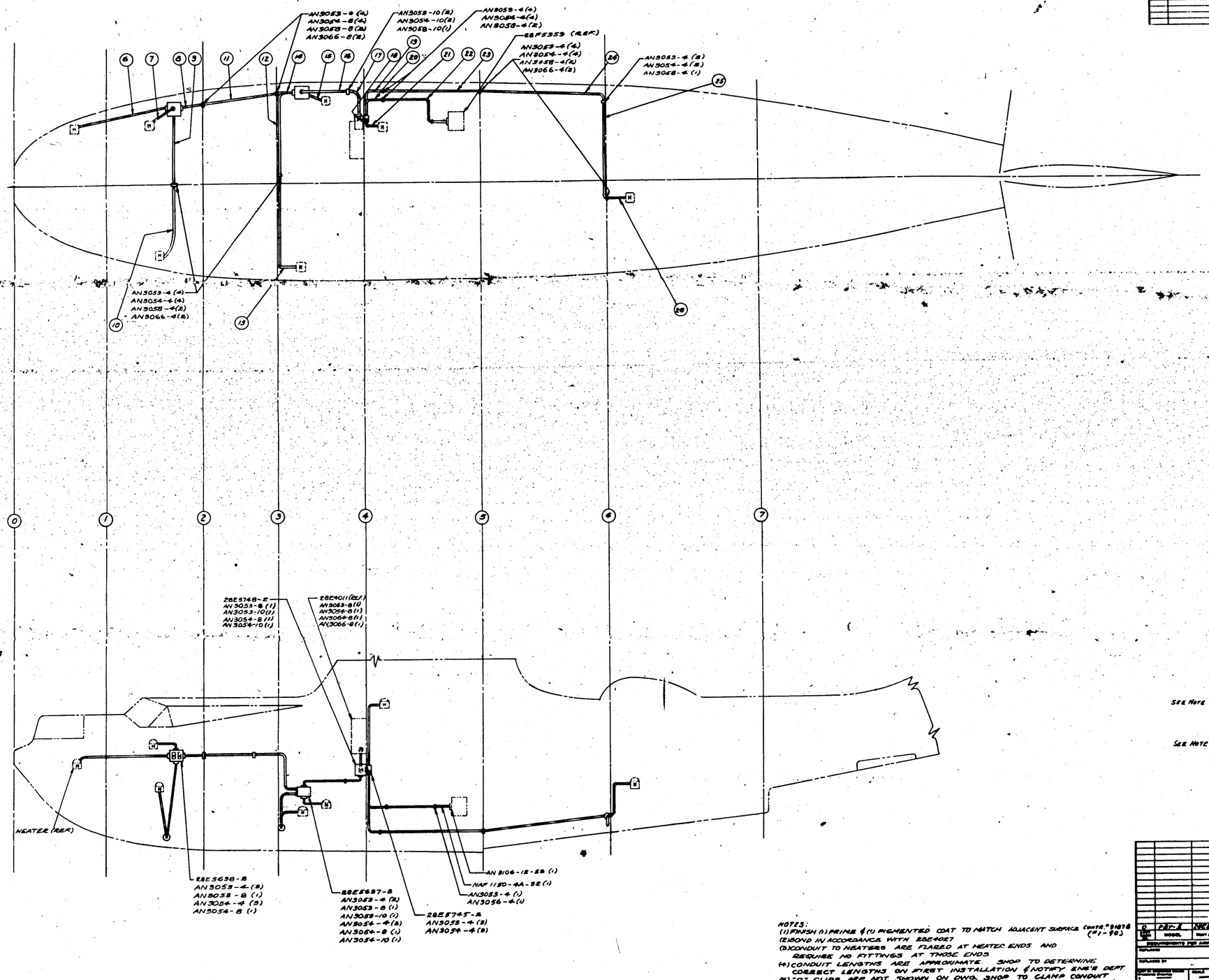
94303-D4
AN441E-04

DRAWN	Z-P-2AP	SCALE	6"=1'0"
TRACED		WEIGHT	
CHECKED		SHEET	1 OF 1

NAME DUCT ASSY-COOLING AIR INLET-AUX POWER PLANT DWG NO. 28E5143
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF. SIZE J

H 240

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



NOTES:
(1) FINISH (1) PRIME & (1) PIGMENTED COAT TO MATCH ADJACENT SURFACE CONFG. #31136 (#1-90)
(2) ROUND IN ACCORDANCE WITH 28E4027
(3) CONDUIT TO HEATERS ARE FLARED AT HEATER ENDS AND REQUIRE NO FITTINGS AT THOSE ENDS
(4) CONDUIT LENGTHS ARE APPROXIMATE. SHOP TO DETERMINE CORRECT LENGTHS ON FIRST INSTALLATION & NOTIFY ENG'R DEPT.
(5) "Q" CLIPS ARE NOT SHOWN ON DWG. SHOP TO CLAMP CONDUIT AT SUITABLE INTERVALS IN SHIP ON FIRST INSTALLATION & NOTIFY ENG'R DEPT.

| | | |

LET	ALTERATION	DATE	BY
A	Q4303-D4(A) WAS Q4302-D4(A) ALSO SHA. KNEE IN VIEW "A" SEAMS ON FRONT & BACK OF DUCT WERE ON SIDES. NO WT CHG.	8-14-42	WALT SHROOM
B	12-D-064 (1) WAS 32-D-064 (1) WT. CHG. NEG.	4-1-43	WALT SHROOM
C	REVOLVED -B THRU 32⅝" NO WT CHG	8-13-43	

E.O. A31025
E.O. A38763
E.O. A40428.

3/32 HOLES TO MATE 32E57M (REF) (6 PLACES - TYP)

60°

JOGGLE - 7 AS SHOWN FOR A DISTANCE OF 1" AT EACH END

120°

VIEW C~C
SHOWING HOLE LOCATIONS
SCALE 6"=1'-0"

Q4303-D4-FLUSH ON INS.

-6

-7

½

SPOTWELD -6(REF) TO -7 (REF.)

A

½ OVERLAP (TYP.)

C

AC366-F1032 AN425-D3 Q7103-F1 (8 PLACES TYP)

22½°

-9 SPOTWELD TO -6(REF)

5½ DIA.

6½ DIA.

6 DIA.

7/32 HOLES (8 PLACES, EQUALLY SPACED) TO MATCH 28E5145 (REF)

⅛

-10(REF) SPOTWELD APPROX AS SHOWN

1

1

5R

5R

A

AN442-D4 4 PLACES

C

7½ DIA. INS.

30°

½

KEEP 7½ DIA. THIS DIST

19½R INS

7⅞

17R INS.

B

3½

3⅛ DIA CUTOUT IN -6(REF).

6

-9(REF)

2 3/16

-10

½R

1

1

2½R

2½R

A

C 91076
1-90¢ SPACES

SECTION B-B (REF) FAIRED INTO 7½ DIA. (REF) THIS DIST

SECTION B~B (REF) TYP THIS DIST.

SECTION B~B
SCALE 6"=1'-0"

⅛R

⅝R

⅝R

⅛R

-9(REF)

-6(REF).

-7(REF).

6⅞ INS.

3⅛

⅛

⅝

5½ INS.

A ⅛

VIEW A

⅛ HOLE THRU -8

B

32-D-064

Q4305-D4 (6 PLACES)

AN868-3

-8(REF)

A

C. 91076
1-90¢ SPACES

SPOTWELD TO -6 & -7 (REF.)

PART NO.	STOCK MATERIAL	SPEC.	REQ'D -0	REQ'D -2	REQ'D -3	REQ'D -4	REQ'D -5
AC366-F1032							
AN425-D4							
Q7103-F1							
Q4305-D4							
AN442-D4							
AN425-D3							
12-D-064	VELLUMOID	GASKET					
-10	YAR-3/16 LIN.						
-5	.040 X 3/16 LIN.	AC 8454	47AB-7				
-6	.040 X 3/16	AC 8430	47AB-A				
-7	.040 X 3/16	AC 8430	47AB-A				
-8	.040 X 3/16 ER	AC 2430	47AB-A				

PARTS LIST FOR ASSY.

A9			VOUCHER	LOFTIN	CHECKED		PROJ. ENG.				
DRAFT 12-12-42	E-P-AP		1-29-43	DESIGN			W.E.	2-15-43			
HEAT TREAT	FINISH		DRAFT	DESIGN	ENGINEER	DATE	APPROVED	DATE			

NAME OUTLET DUCT - LOWER - AUX. POWER PLANT

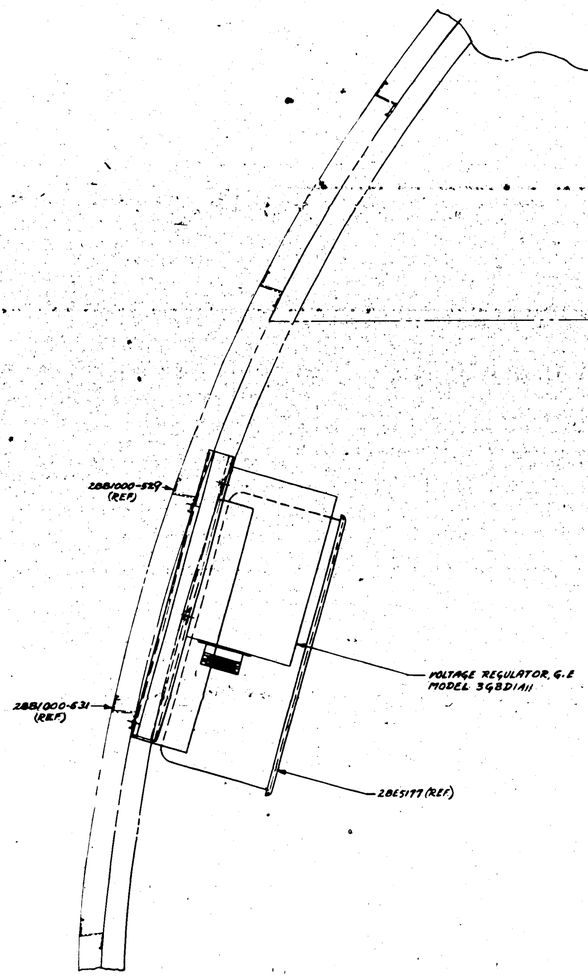
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG 28E5159 | APP'D

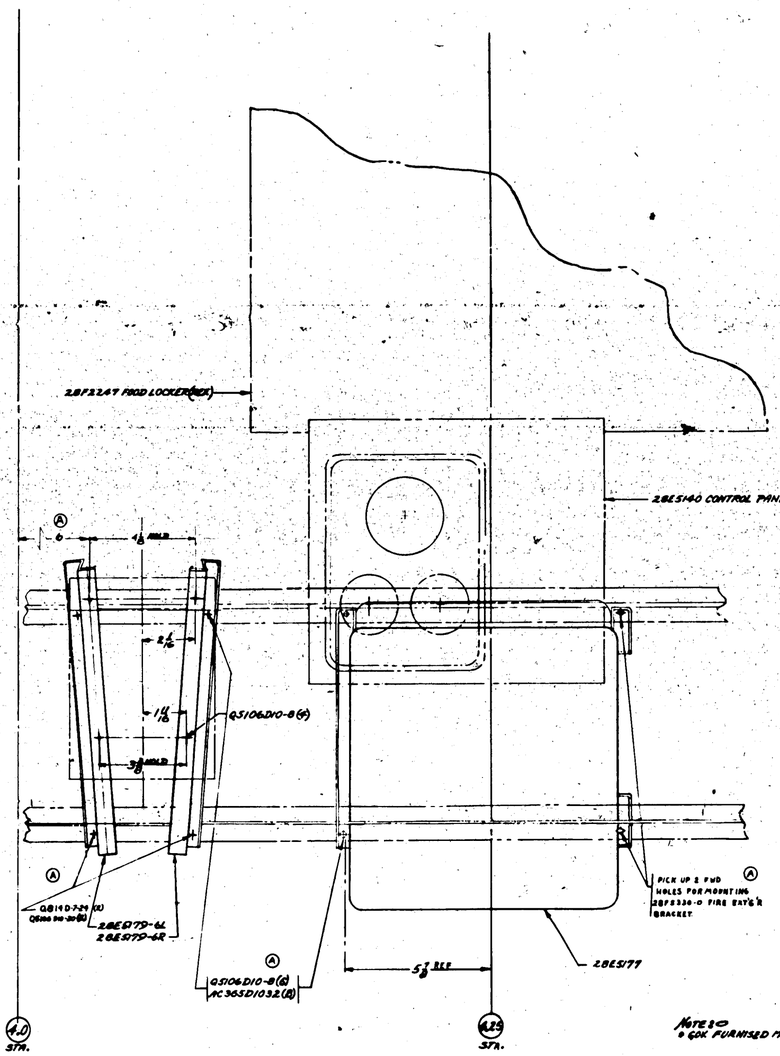
H 242

LET	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
A	DIM & WHERE USED ON C-6A/ WAS DRWG DIAGRAM ADD HOLE PICK--- BRACKET REF TO P.S. DWG. W.I.C.H.R. PER	9-20-55					

EO 533918



VIEW LOOKING AFT
OUTBD

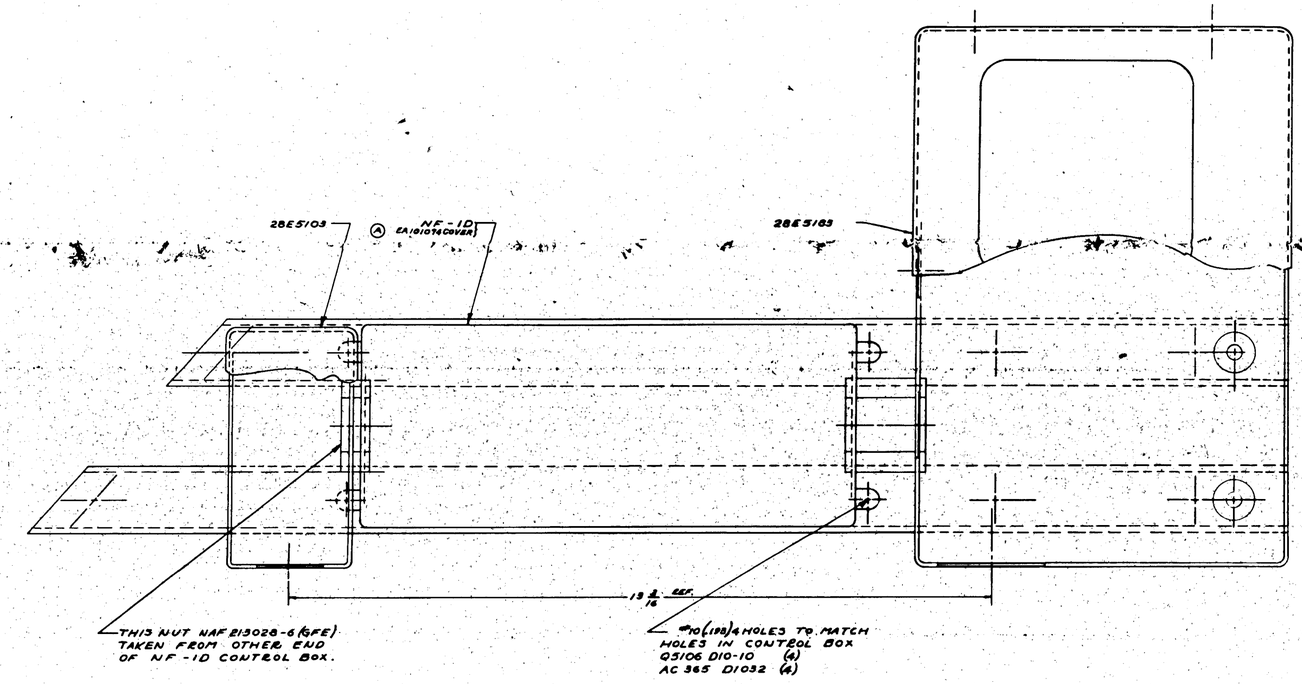


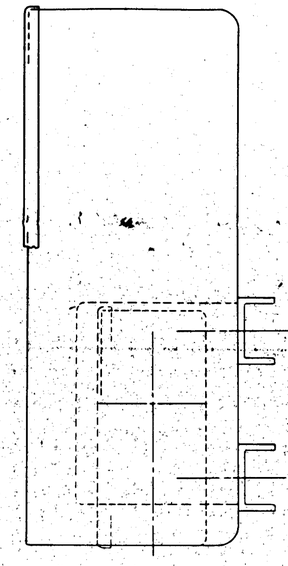
VIEW LOOKING OUTBD
FWD

NOTE 2
G.F.E. FURNISHED MATERIAL

| | | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	ADDED EA-10174 COVER (1) PT. CAD. NO. 8.	9-26-42					





PART NO.	STOCK	MATERIAL	SPEC.	PARTS LIST PER ASSY. -0	-2	-3	-4	-5
EA10174 COVER NF-1D VOLTAGE REG.				1	1			
AC365 D1032				4				
28E5103				1				
28E5183					1			

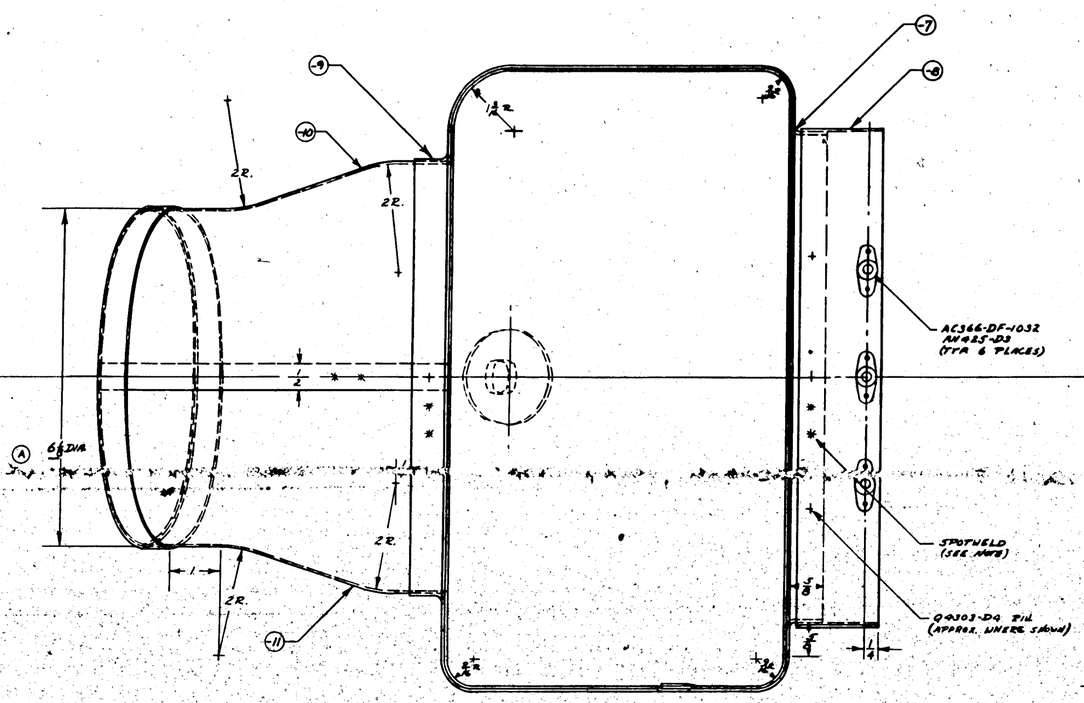
*GOV. FURN. EQUIP.

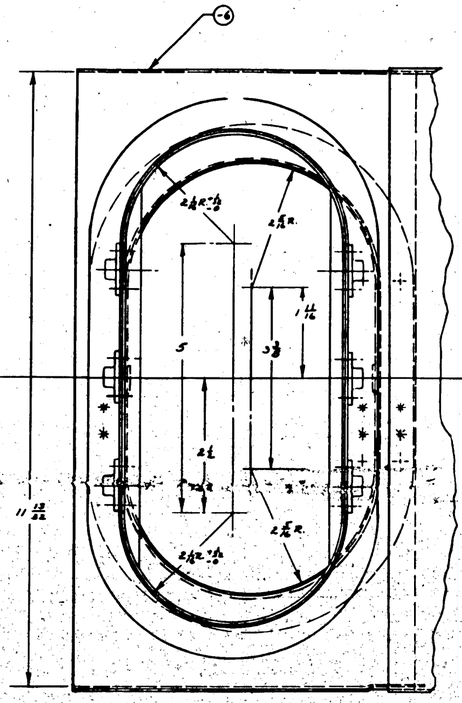
CONT. 91876 #170 80

A6 NAVY USE	NONE FINISH		LANG. CAD SHEET	SIZE D	FSCM NO. 81205
HEAT TREAT			LAYOUT APPD.	DRAWN	CHKD.
NAME REGULATOR ASSY-ELEC. VOLTAGE CONTROL UNITS-BLDG.			SIZE J	DWG. NO. 28E5182	
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.			SCALE NONE	SHEET 1 OF 1 SHTS	

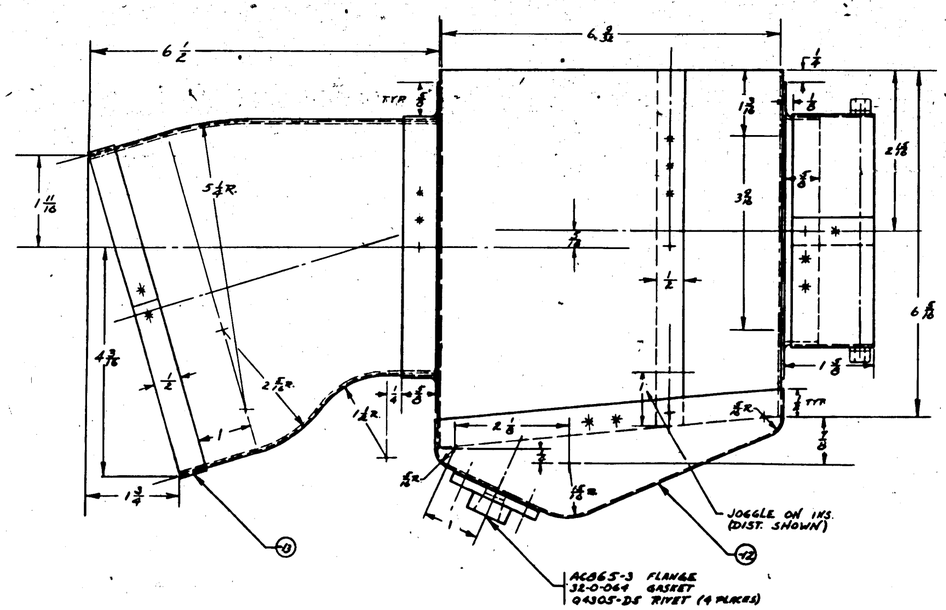
H 244

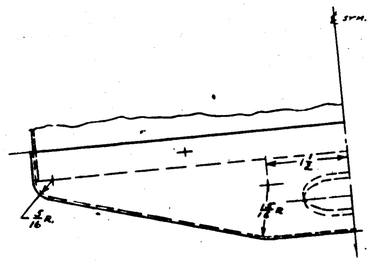
LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	6 1/2 DIA. REAR 1/2 WT. CHG. NEG.						





NOTE
1. ALL PARTS TO BE SPOTWELDED EXCEPT WHERE RIVETS ARE SHOWN.
2. ALL SPOTWELD SPACING - APPROX. 1/2.
3. ALL BEND RADII NOT SHOWN: 1/8.





C-70496 (*2406-2455)

H 245

| | | | | | |

LET.	ALTERATION	DATE	BY
A	28E5284-0 WAS 28E5285-7 ADD WT & CHG. NO.	3-24-42	
B	ADDED "PORT AC & STBD AC" & LETTERING BLACK DECAL NO WT CHG.	5-14-42	

EOA 933903A

DECK LINE

34 TO DECK LINE

*10(.332 HOLES IN 28B1400-59 (REF.) TO MATCH 28E5283 (REF.)
Q3106 DIO-6 (2)
AC 366 DF 1032 (2)
AN 426 -AD3 (4)

28B1400-159 (REF.)

7/8 REF.

Q3106-D10-6 (8)

28E5283 LOCATE TO MATCH 28E5285 REF. AN442-04 (7)

28E5285

28E5284-0

5-3/16 REF.

3/16

4 1/16

PORT A.C.

STBD A.C.

6 1/16 REF.

AN3108-22-19 (REF.)

28B1401-3 REF. — WEB

28B1400-3 REF.

28B1400-59 REF.

28B1401-2 REF. — WEB.

28B1400 REF.

Q3106-D10-6 (4)
AC 366-2-1032 (8)
(OPP.) 4 HOLES TO MATCH 28E5279 REF. IN 28B1401-3 REF.

40 1/4 TO DECK LINE

28E5299 L

Q3106-D10-8 (8)

4 3/16 REF.

LOCATE TO MATCH CONTROL BOXES

28E5299 R

AC CONTROL BOX (2) GOVT FURNISHED

*10 LETTERING, BLACK DECAL

BULKHEAD #4 LOOKING FOREWARD

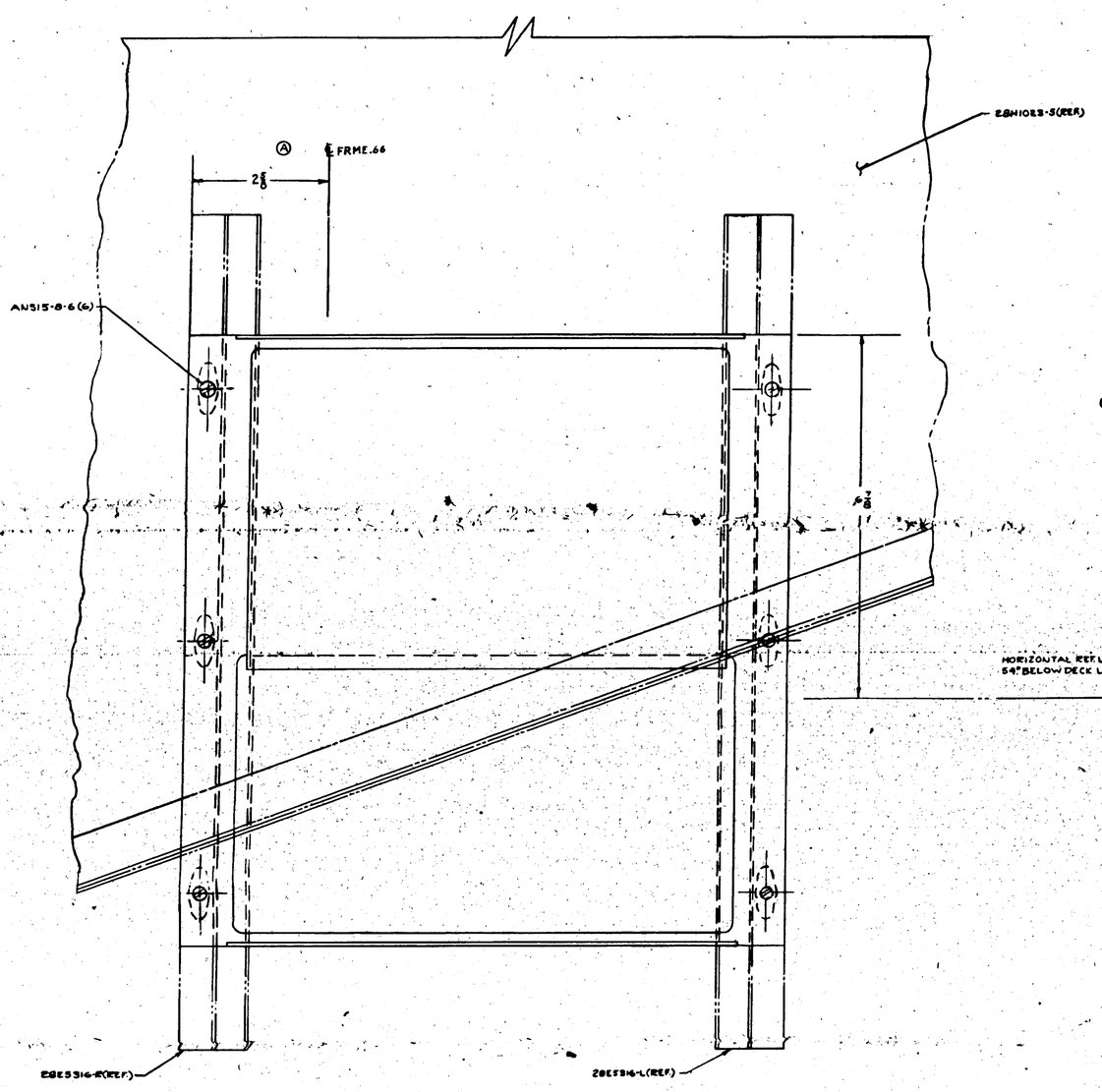
NOTE:
1.* AC CONTROL BOX GOV'T FURNISHED

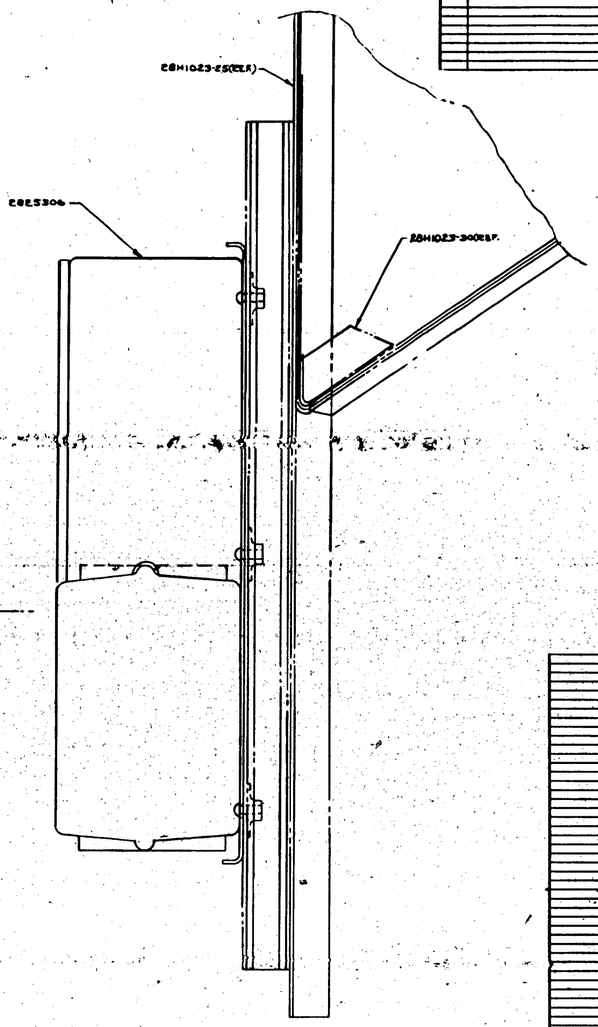
H 246

Contract NOa(s) 9176

| | | |

LET	ALTERATION	DATE	BY
A	DIM'S ON WALL & ADD NOTE	6-8-42	



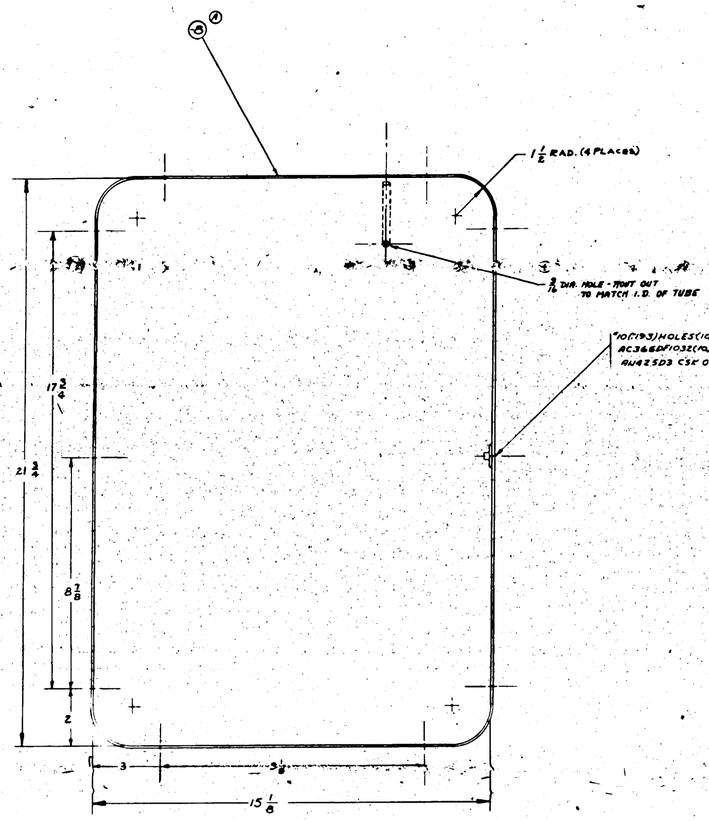


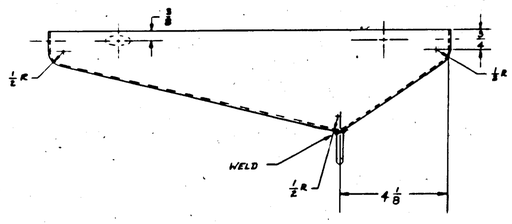
HORIZONTAL REF LINE
54" BELOW DECK LINE

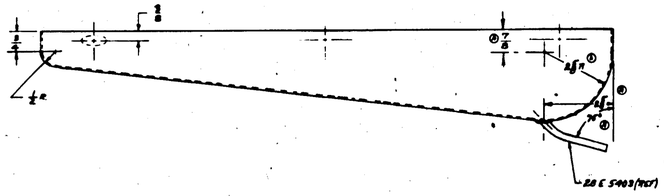
MACHINE / CENTRE ALL
M.C.R. 3244-C, DATED 11-14-41

| | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
F	PER MCR 89-20 ADD (2) HOLES (10) AC366DF1032 (10) AN425D3 CSK ON OUTSIDE SURFACE. ADD (2) HOLES (10) AC366DF1032 (10) AN425D3 CSK ON OUTSIDE SURFACE. ADD SHT 2 REV F.	9-21-89					







MCR # 89-20

APPROVED FOR TOOLING BY

AC366DF1032 (10)
AN425D3 (10)

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.						
PARTS LIST PER ASSY.				-0		-1		-3		-4		-5							

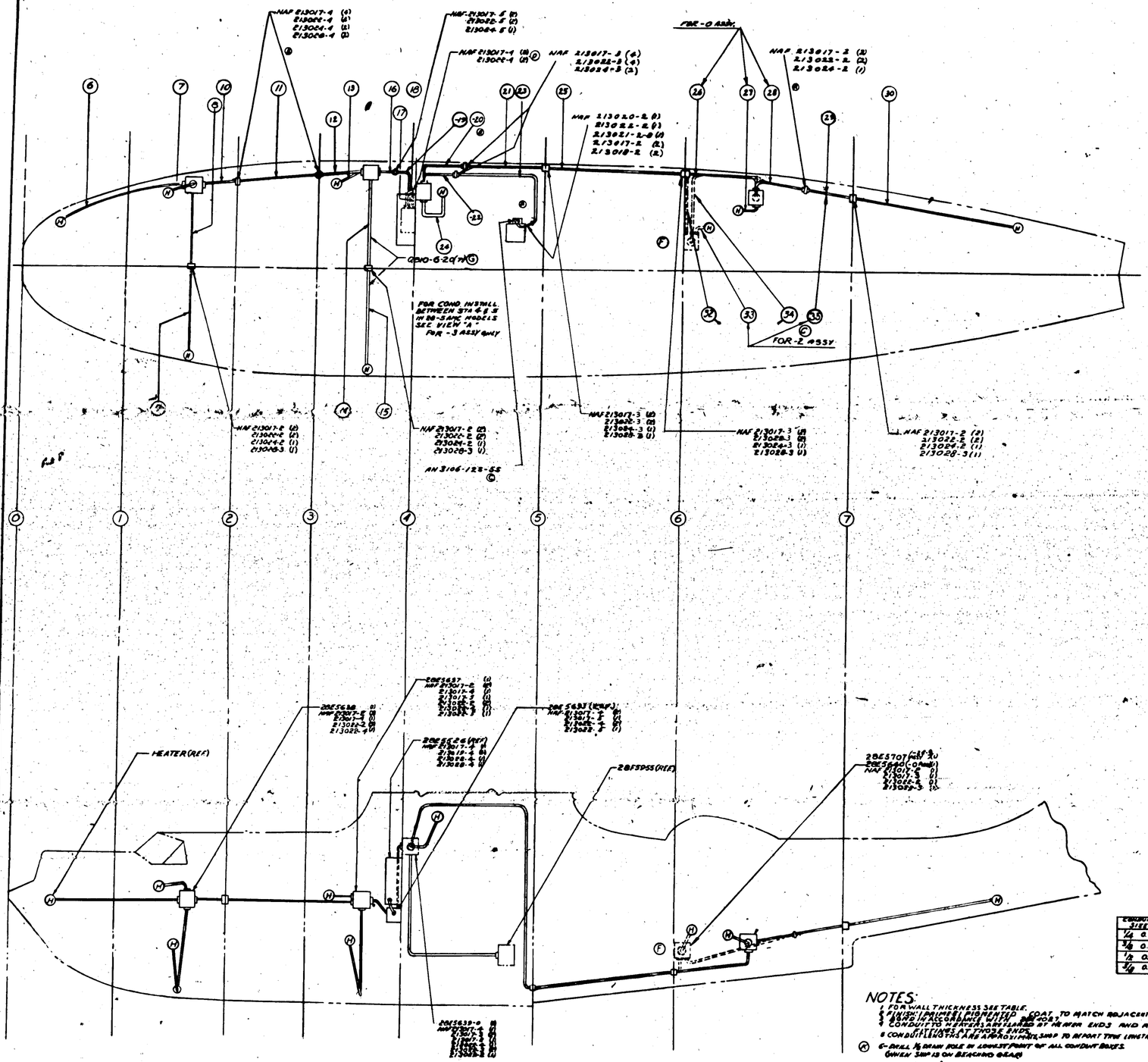
AIRPLANE MODEL	B-24	SCALE	1-8
ASSEMBLY NO.		DRAWN	
NEXT HIGHER ASSY.		DESIGN	

NAME A35Y-ELEC-CENTER OIL DRIP PAN ASY

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

DWG NO. 28E5398 SIZE J

H 248



CONDUIT SIZE	WALL THICKNESS
1/4 O.D	.022
3/8 O.D	.022
1/2 O.D	.028
3/4 O.D	.028

NOTES:
1. FOR WALL THICKNESS SEE TABLE.
2. FINISH: [illegible] DISPERSED COAT TO MATCH ADJACENT SURFACES.
3. BEND IN ACCORDANCE WITH AN-ST-120. USE AT MINIMUM ENDS AND RADIUS NO CONDUITS HEATERS ARE LOCATED.
4. CONDUIT LENGTHS ARE APPROXIMATE. SHOP TO REPORT TRUE LENGTHS TO ENG'R.
5. DRILL 1/8 DRAIN HOLE IN LOWEST POINT OF ALL CONDUIT BENDS.
(WHEN SHIP IS ON BEARING GEAR)

LENGTHS GIVEN ARE APPROX. DETERMINE CORRECT LENGTHS ON FIRST INSTALL. & MODIFY ENDS, ETC.

△ NOTE:- 28E5691-3 ASSY IS REPLACED BY 28E5730-0

△ NOTE:- AS PER 28E5785.

H 249

3/26/91
THIS DRAWING WAS RUSH RELEASED AFTER CHANGE "A" WAS MADE.
C.F.M.

LET	ALTERATION	DATE	BY
A	REVISED CONDUIT B.O.M.	7-16-91	[illegible]
B	CHANGED [illegible]	7-16-91	[illegible]
C	ADDED [illegible]	7-16-91	[illegible]
D	ADDED [illegible]	7-16-91	[illegible]
E	ADDED [illegible]	7-16-91	[illegible]
F	CHANGED [illegible]	7-16-91	[illegible]
G	[illegible]	7-16-91	[illegible]
H	[illegible]	7-16-91	[illegible]
J	[illegible]	7-16-91	[illegible]
K	[illegible]	7-16-91	[illegible]

LET	ALTERATION	DATE	BY
L	[illegible]	7-16-91	[illegible]

PART NO.	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4	-5
				QTY	QTY	QTY	QTY	QTY
-20				1				
-21				1				
-22				1				

LET	ALTERATION	DATE	BY
A	ADDED WIRES 738 TO 744 INCL. #14 GA. 8 ITEMS - 1716 172 WT. CHG. NO. 1		
B	ADDED WIRE "ITEM 8" #14 GA. OF WIRES 397 & 398 FROM #19 TB. ADDED INCEPT. TUBE & REVISED PLATE & SHIELD DIAGRAM. WT. CHG. NO. 2		
C	CHG'D. PART CODE FOR MOUNTING BLOCK TO AC-1668 FOR 14 AMPHENOL BLOW BLOWER & PART DESCRIPTION. CHANGE NO. 3 (PA)		
D	REMOVED WIRES 738 [illegible] INC. #14 GA. 2 ITEMS [illegible] WT. [illegible]		
E	ADDED ITEMS [illegible] REVISED ITEM [illegible] WIRE CROSS REF. TO [illegible] W/A AC-1668 [illegible] PER REVISED SYSTEM [illegible] ITEM "7A" NO PATCHING		

E.O.A45529

E.O.A54467

E.O.A56163A

WIRE TABLE		
WIRE	GAUGE	LENGTH
227	20	5
228	18	1
229	20	5
455	18	25
456		5
457		5
458		25
459		5
1050		5
451		26
452		10
453		26
454		10
504		1
507		1
508		9
509		7
515	18	2
516		
518	16	5
519	16	7
520	18	7
521	20	26
524	16	1
525	16	2
526	18	1
527	16	1
528	16	2
532	20	4
207	18	
208	18	
1050	18	3
1051	18	25
1052	18	26
1053	18	10
1054	18	1
1055	18	1
1056	18	7
1057	18	5
1058	20	4
1059	18	1

ELECTRIC FLOAT CONTROL SYSTEM + WINDSHIELD WIPER SYSTEM

EQUIPMENT LIST

NO.	ITEM	MANUFACTURER	SCHNECTADY, N.Y.	TYPE	DRAWING	REQ.
228	RELAY	GENERAL ELECTRIC CO	SCHNECTADY, N.Y.	GTR70B-1		1
229	D.P.D.T. SWITCH	CUTLER-HAMMER, INC.	MILWAUKEE, WIS.	8820-K1		1
57	HOIST MOTOR FLOAT	GENERAL ELECTRIC CO.	SCHNECTADY, N.Y.	BC-21M		1
84	SWITCH (2 POLE)			B10-E68		1
78	FUSE - 6 AMP.	LITTLE FUSE CORP.	CHICAGO, ILL.	6-AG		1
160	MICRO SWITCH	MICRO SWITCH CORP.	FREEPORT, ILL	82A-21	NAF1034-4-5	1
162	LIGHT ASS'Y				NAF1018-2	1
163	JEWEL				NAF81/2386-4	1
164	LAMP BULB				NAF1068-20	1
161	SWITCH	GENERAL ELECTRIC CUTLER-HAMMER, INC.	CLEVELAND, OHIO. MILWAUKEE, WIS.	T-3/4 8812K1	5328	1
165	LIGHT	GRIMES MFG. CO.	URBANA, OHIO.	24AC-21-19-75	NAF1060-28	1
166	LAMP BULB	GENERAL ELECTRIC	CLEVELAND, OHIO.	T-4 1/2	AN1108-28-B2	1
83	RECEPT. PLUG	CANNON MFG. DEV. CO.	LOS ANGELES CALIF.	DAC-21	5328	1
76	FUSE - 20 AMP.	LITTLE FUSE CORP.	CHICAGO ILL. 948			

CONTRACT FURNISHED

CONT. 88476 "83 ON

NOTES:
1. FOR FLOAT CONTROL INSTALLATION REMOVE THE FOLLOWING WIRES & ITEMS AS LISTED ON 28E5478 SHEET #1
   WIRES: 434, 435, & 849 ITEMS: (7 B), (8 B), (80), (7 B), (80), (8 B), (8 B), (8 B), (8 B), (122 B).
   CHANGE FOLLOWING WIRES FROM 484 TO 604, 505, 209 & 210.
2. ADD FOLLOWING WIRES: 380 TO 384 INCL., 455 TO 464 INCL., 504 TO 508 INCL., 513 TO 518 INCL., 521, 522, 524, 525, 848 TO 852 INCL.
   ADD FOLLOWING ITEMS: (67 B), (78 B), (72 B), (186 B), (160 B), (161 B), (162 B), (163 B), (164 B), (168 B), (166 B).
3. SHOP TO DETERMINE ACTUAL LENGTH OF WIRES ON FIRST SHIP & NOTIFY ENG.

H-250

PART NO.	STOCK	MATERIAL	SPEC.	LET	LET	LET	LET	LET	LET
	PARTS LIST FOR ASSY.			-0	-2	-3	-4	-5	

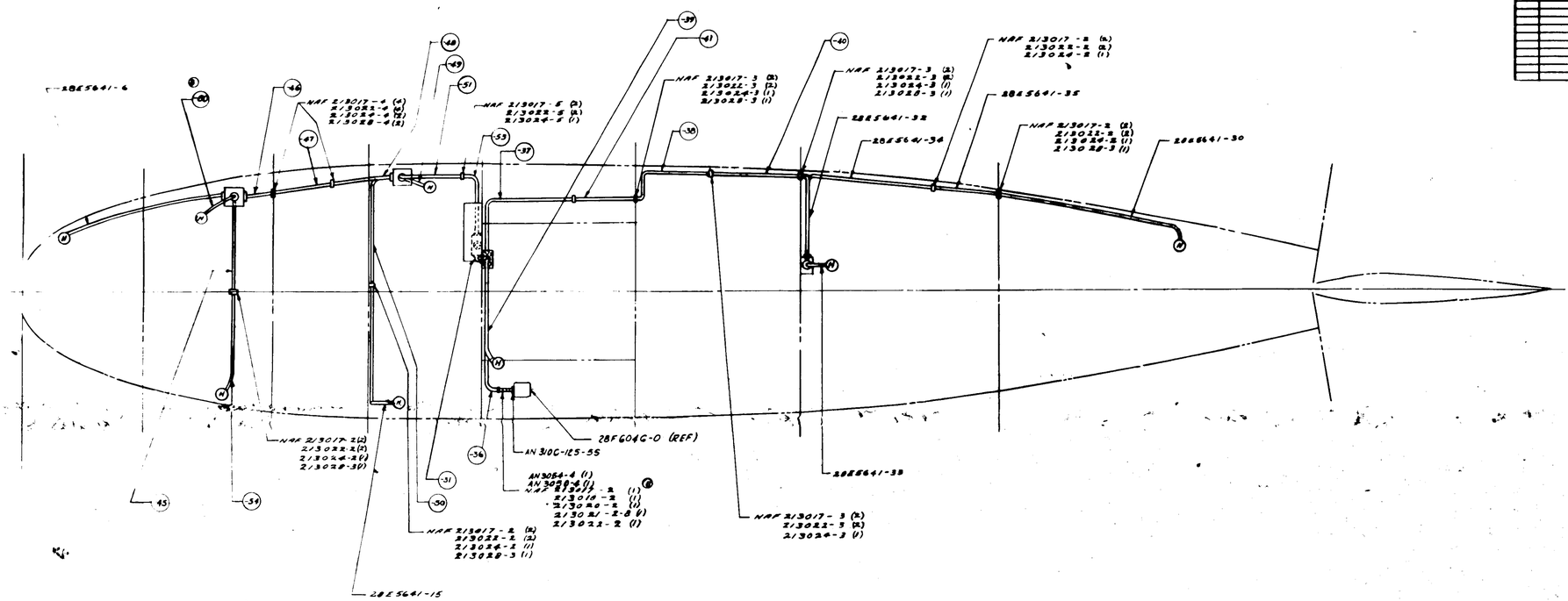
A.C.		3 PH 60	CANVAS	A.C.	POWER
NAVY		ARMY	ADAPTED TO	A.C.	
NEXT ASSY		USED ON	SHIP		

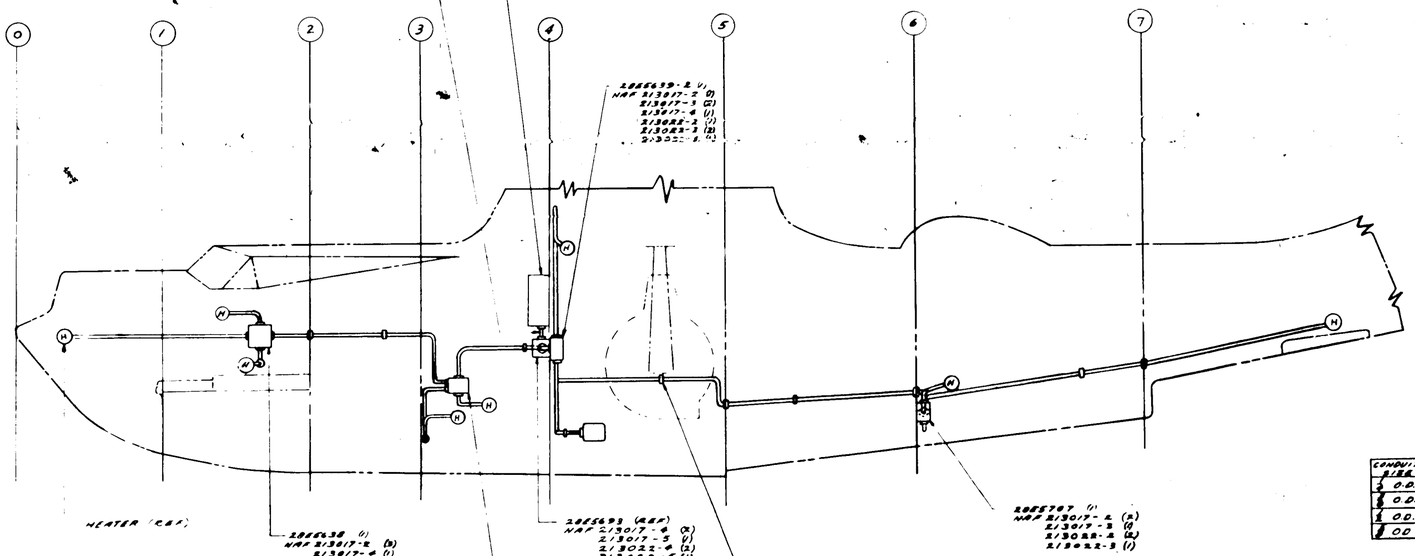
MODEL WIRING DIAGRAM ELECTRICAL SYSTEM

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

DWG. NO. 28E5675

SHEET 6 OF 9





CONDUIT SIZE	WALL THICKNESS
½ O.D.	.022
¾ O.D.	.022
1 O.D.	.028
1¼ O.D.	.028

NOTES:
1. FOR WALL THICKNESS SEE TABLE
2. FINISH (I) PAINT (F) PASSIVATE COAT TO MATCH ADJACENT SURFACE
3. BEND IN ACCORDANCE WITH 28E4087
4. CONDUIT TO HEATERS ARE FLARED AT HEATER ENDS AND REQUIRE NO FITTINGS AT THOSE ENDS
5. CONDUIT LENGTHS ARE APPROXIMATE. SHOP TO DETERMINE CORRECT LENGTHS ON FIRST INSTALLATION & NOTIFY ENGR. DEPT.
6. C-CLIPS ARE NOT SHOWN ON DRWG. SHOP TO CLAMP CONDUIT AT SUITABLE INTERVALS IN SHOP ON FIRST INSTALLATION & NOTIFY ENGR.

C-88476-"B" SEEN
COVER: 88476-1 THRU -8
COVER 70406
COVER 77715

H-251

| | | |

LET	ALTERATION	DATE	BY
A	CHANGED -2 ASSY AND ADDED -3 ASSY	10-4	[illegible]
	REQUIREMENTS TO RUN ARE		
	SAME AS BOMB SCRED		
	WIRE TO SEAL AS BOMB		
B	CREATED -3 ASS'Y. SAME AS -2 ASS'Y. EXCEPT DELETED 28E3013-3 & REPLACED WITH 28E3013-4 & ADDED NAF 1150-3A-(1) WITH NAF-3A-44 (1) ADDED NOTES "CONNECTION FOR -3 ASS'Y." (MAN 30C-1) (1) AN 3069-30 FOR -3 ASS'Y. ONLY" "QTY DECREASE 8-8"	7-1-53	PVM
		8-18-53	PVM

E.O. A60025B
MCR 101-3

ZONE
B-8, C-8

NAF 1150-3A-30 (2)
NOTE: USE AN3068-3 KNURLED NUT FURNISHED WITH EACH TYPE X220 LAMP ASSEM.

AN3064-3 (1)
AN3066-3 (1) ON -0 & -2 ASSY.

AN515-6-7 (4)
AC365-632 (4)
Q7102-AL6 (8)

28E3013-4 ON -0 & -2 ASSY.

ELECTRONIC LABORATORIES TYPE X220 LAMP ASSEM.

3/8 (REF)

30° (REF)

28E3012-7 (REF)

ANCHOR BOX (REF)

28E3012-6 (REF)

FORWARD

TOP VIEW LOOKING DOWN PORT SIDE
FOR -0 ASSY

AN 3064-3 (1)
AN 3066-3 (1) FOR -3 ASSY ONLY (B)

28F1113-60 (REF)

28F1005-122 (REF)

#8 (.169) I HOLE IN 28F1005-122 TO MATCH HOLE IN 28E3225
AN 515-8-8 (1)
AC 365-832 (1)
Q7102 AL8 (2)

PICK UP EXISTING BOLT AND MOUNT BRACKET 28E3225 WITH SAME BOLT.
AN 3260832-8 (REF)
AC 365-832 (REF)

NOTE: (B)
IN -2 ASSY. ONLY
THIN-END OF FLEX CONDUIT CONNECTS TO BOX 28E3013-4 AS SHOWN IN VIEW IN EXTREME LEFT HAND UPPER CORNER OF DRWG.

CONNECTION FOR -3 ASS'Y.

(A)
VIEW LOOKING INBOARD
PORT SIDE ON -2 ASSY ONLY
SCALE 6"=1'-0"

ELECTRONICS LABORATORY TYPE X220 LAMP ASSEMBLY.

28E4225

AN515-6-7 (4)
AC 365-632 (4)
Q7102 AL6 (8)

NAF 1150-3A-36 (FOR -2 ASS'Y.) (B)
NAF 1150-3A-44 (FOR -3 ASS'Y.)
USE AN 3058 KNURLED NUT FURNISHED WITH EACH X220 LAMP ASSY.

(A)
VIEW LOOKING FORWARD
PORT SIDE ON -2 ASSY ONLY

ELECTRONIC LABORATORIES TYPE X220 LAMP ASSEM.

28F5012-2 (REF)

W109 STRINGER (REF)

28E5749

AN515-6-7 (4)
AC 365-632 (4)
Q7102-AL6 (8)

AN4420S (4)

-111 STRINGER (REF)

1/4

1/2

4 1/2

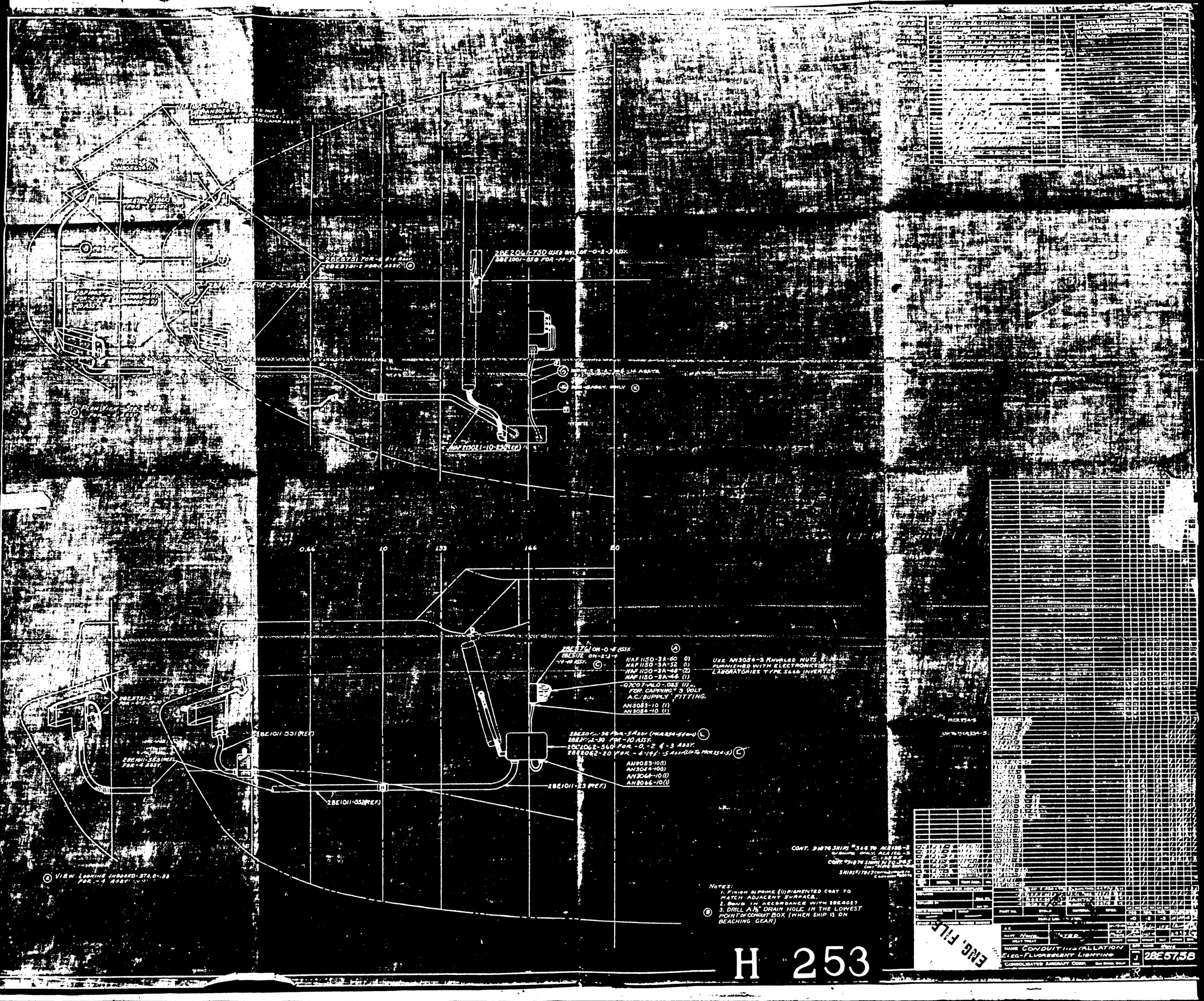
6 1/8

STARBOARD SIDE LOOKING OUTBOARD
FOR -0 ASSY & -2 ASSY.

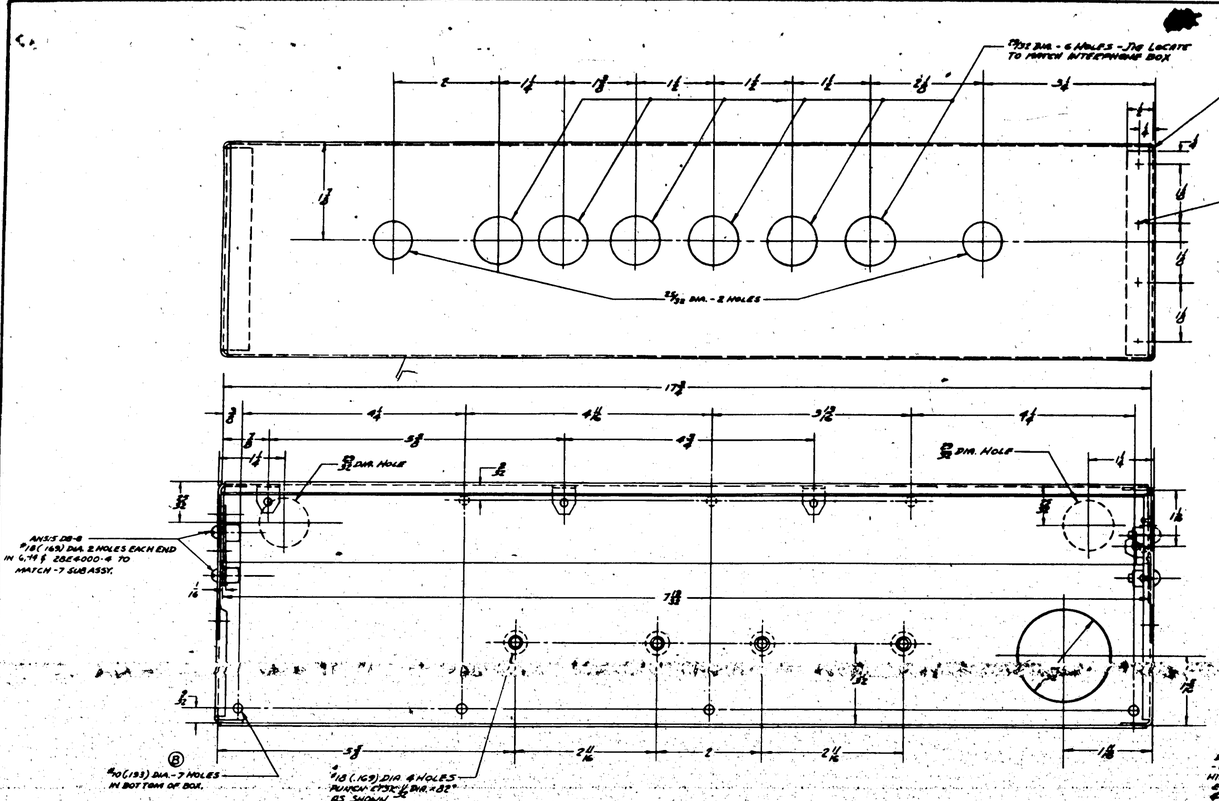
FORWARD

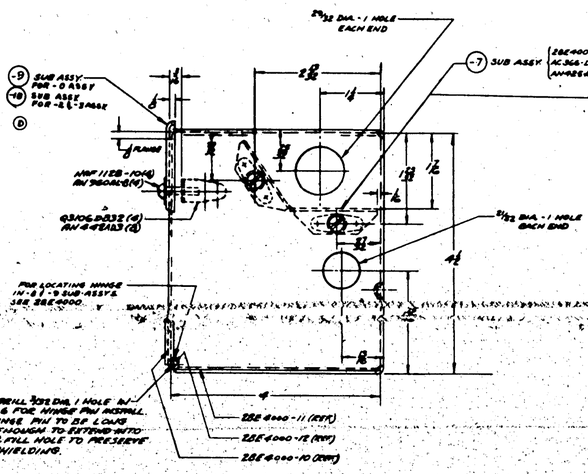
STA. 033

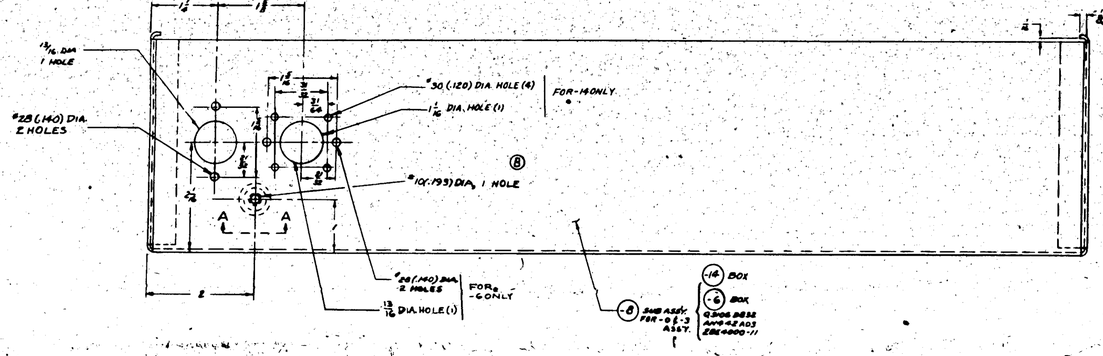
| | | |

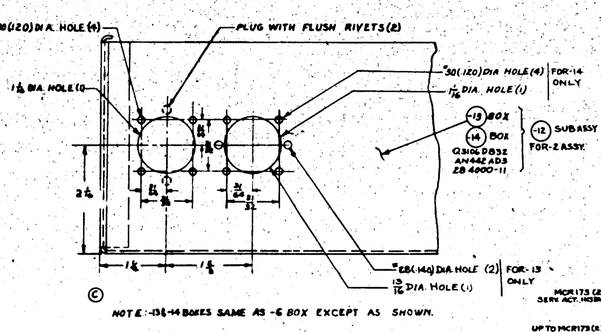

28E6731 FOR -4 ASSY.
28E6731-1 FOR -5 ASSY.
28E2061-750 USED ON -0-2-3 ASSY.
28E1001-850 FOR -4-5 ASSY.
AN3053-10 (1)
AN3054-10 (1)
28E1011-331 (REF.)
28E1011-332 (REF.)
28E1011-23 (REF.)
28E1011-352 (REF.)
28E6731-3 FOR -2-3-4-5 ASSY.
28E2761 FOR -0-4 ASSY.
28E6731-1 FOR -2 ASSY.
NAF1150-3A-60 (1)
NAF1150-3A-32 (1)
NAF1150-3A-44-20 (1)
NAF1150-3A-44 (1)
-GTC07-ALO-.065 (1)
FOR CAPRINO 3 VOLT A.C. SUPPLY FITTING.
AN3083-10 (1)
AN3084-10 (1)
28E2061-36 FOR -5 ASSY. (FOR 254-5 ONLY)
28E2061-20 FOR -10 ASSY.
LOK-LOC2-560 FOR -0-2-4-3 ASSY.
28E2062-20 FOR -4-1-5 ASSY. (UP TO FOR 254-5)
AN8053-10 (1)
AN3054-100 (1)
AN3064-10 (1)
AN8066-10 (1)
USE AN3054-3 KNURLED NUTS FURNISHED WITH ELECTRONICS LABORATORIES TYPE 3668 INVERTER
0.66
10
193
166
20
VIEW LOOKING INBOARD STA. 0-88 FOR -4 ASSY.
NOTES:
1. FINISH (1) PRIME (1) PIGMENTED COAT TO MATCH ADJACENT SURFACE.
2. BOND IN ACCORDANCE WITH 28E4027
3. DRILL A 1/4" DRAIN HOLE IN THE LOWEST POINT OF CONDUIT BOX (WHEN SHIP IS ON BEACHING GEAR)
ENG. FILE
NAME CONDUIT INSTALLATION ELEC-FLUORESCENT LIGHTING
CONSOLIDATED AIRCRAFT CORP.
28E5758

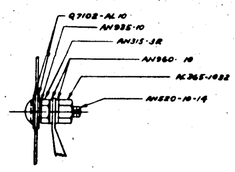
H 253











SECTION A-A

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A			
B			
C			
D			
E			

*FINISH: P&T PRIMER, 2 COATS BLACK ENAMEL

NOTES:
ALL BENDS 1/8 R
FORMING TOOL FOR 2BE4000-5, -6 & 8BE5767-6 SAME AS THOSE FOR 2BE1068-21-3
**FINISH-P-2-DBC
DO NOT FINISH 11/16, 25/32, 1 1/32 DIA HOLES FOR 5/16 RADIAL DISTANCE OUTSIDE.
HEAT TREAT - SR-52 CONDT FOR -6

MCR #43 { C08976 "J" 7-15-52 C.01816 "J" 7-19-52 CONT'D THIS SHT #2 C.01816 "H" 7-10-52

PART No.	STOCK	MATERIAL	SPEC	LA	LH	LJ	LF	LG	LD	LE	LC
				REQ'D	REQ'D	REQ'D	REQ'D	REQ'D	REQ'D	REQ'D	REQ'D
				-10	-8	-8	-8	-4	-8		

PARTS LIST FOR ASSY.

SHOT NOTED	NOTED	DRAWN	
HEAT TREAT	FINISH	STOCK	CHECKED

NAME: BOX DETAILS - ELECT. PILOT'S SWITCH PANEL

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG. NO. 28E5767

H 254

R/19782

E.O A48617

LET	ALTERATION	DATE	BY
F	RELOCATED 28E1133-24 FROM OFF TO ON SIDE OF SWITCH NO WT. CHG.	8-6-45	
G	W-2 ASSY CHGD FROM REF TO REQ'D. W-2 ASSY CONSISTS OF: W-2 ASSY, W-3 ASSY, W-4 ASSY, W-5 ASSY, W-6 ASSY, W-7 ASSY, W-8 ASSY, W-9 ASSY, W-10 ASSY, W-11 ASSY, W-12 ASSY, W-13 ASSY, W-14 ASSY, W-15 ASSY, W-16 ASSY, W-17 ASSY, W-18 ASSY, W-19 ASSY, W-20 ASSY, W-21 ASSY, W-22 ASSY, W-23 ASSY, W-24 ASSY, W-25 ASSY, W-26 ASSY, W-27 ASSY, W-28 ASSY, W-29 ASSY, W-30 ASSY, W-31 ASSY, W-32 ASSY, W-33 ASSY, W-34 ASSY, W-35 ASSY, W-36 ASSY, W-37 ASSY, W-38 ASSY, W-39 ASSY, W-40 ASSY, W-41 ASSY, W-42 ASSY, W-43 ASSY, W-44 ASSY, W-45 ASSY, W-46 ASSY, W-47 ASSY, W-48 ASSY, W-49 ASSY, W-50 ASSY, W-51 ASSY, W-52 ASSY, W-53 ASSY, W-54 ASSY, W-55 ASSY, W-56 ASSY, W-57 ASSY, W-58 ASSY, W-59 ASSY, W-60 ASSY, W-61 ASSY, W-62 ASSY, W-63 ASSY, W-64 ASSY, W-65 ASSY, W-66 ASSY, W-67 ASSY, W-68 ASSY, W-69 ASSY, W-70 ASSY, W-71 ASSY, W-72 ASSY, W-73 ASSY, W-74 ASSY, W-75 ASSY, W-76 ASSY, W-77 ASSY, W-78 ASSY, W-79 ASSY, W-80 ASSY, W-81 ASSY, W-82 ASSY, W-83 ASSY, W-84 ASSY, W-85 ASSY, W-86 ASSY, W-87 ASSY, W-88 ASSY, W-89 ASSY, W-90 ASSY, W-91 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LET	ALTERATION	DATE	BY
A	(2 SHS PER AIRPLANE ABOVE CONFIG) PNL 2-E(W) W. PART OF ASSY ON PNL-5A (PART OF STYLE 1) (SEE WHO CHG) SHTS. (NO WT. CHG)	2-12-46	MCM
B	CHANGED -8 ASSY NAME AS -3 ASSY EXCEPT NAF 1037-11	4-23-46	MCM
C	ADDED PART -3 - CALC = 81876 (L. RD LIMIT REG) (DOES NOT AFFECT WT.)	5-23-46	MCM
D	AN3064-8(6) WAS (5) AN 3064-8(5) WAS (4) FOR -3 ASSY ONLY. INCR. WT. CHG. 0.12 LBS	10-46	MCM
E	FOR -2, -3 & -4 ASSYS REMOVED NAF 1059-25-1500, AN3015(1) WAS (2) AN515-8 DR 5(N) WAS (3), AN 340 DR (3) WAS (4), 28E5819 WAS 28E5720, 03577-10 WAS 28E5035-1, AN935-8(3) WAS (3) DR1 A FOR -2, -3 & -4 ASSY'S WAS "DR1 A FOR -2 ASSY W/SNG -5 & -6 ASSY'S"	11-46	MCM
W	IN A/N WIRED 28E5819-2 FROM PNL-5 TO PNL-5A ONLY. INCR. WT. CHG. 0.12 LBS	4-47	MCM

VIEW 'A-B'
VIEW SHOWING RESISTOR BLOCK WITH RESISTORS IN PLACE
(SEE VIEW 'C-C' FOR -7 ASSY)

VIEW 'CC' FOR -7 (SEE VIEW 'B-B' FOR PARTS)
SCALE 6"=1'0"

COVER ASSY ONLY FOR -3 & -7 PANEL ASSY.

VIEW SHOWING ARRANGEMENT OF BUS BARS INSIDE OF COVER FOR -5 ASSY. ONLY.

BUS BAR INSTALL.
VIEW SHOWING INSIDE OF COVER

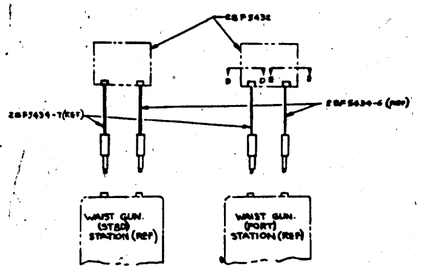
DETAIL 'A'
FOR -2, -4, -6, -10

NOTE - PARTS MARKED THUS * ARE GOVT. FURNISHED

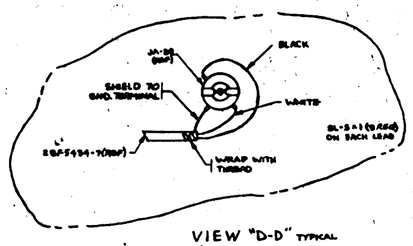
DIM	CHART
A	0-4 / 5 & UP
	0 3/16 / 0 5/16

UP TO MCR 810	A331	WT.
	-7	6.53 LBS
MCR 811 & ON	-7	6.27 LBS

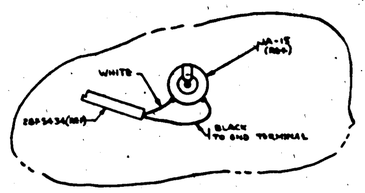
| | | |



NOTE: FOR WIRING JACKS SEE VIEWS "D-D" & "E-E" (H)



VIEW "D-D" TYPICAL
LOOKING OUT OF BOX (H)



VIEW "E-E" TYPICAL
LOOKING OUT OF BOX (H)

LET	ALTERATION	DATE	BY
G	REDRAWN-ADDED DETAIL "B" & "C" RR WT CHG.	15-14-41	
H	ADDED 16.5 EXTENSION BOX (28E 5433) & VIEWS "D-D" & "E-E" NO WT. CHG.	8-16-41	

WIRE TABLE	
WIRE NO	LGH
801-805 ACL	132
806-810	108
811-816	100
817-821	96
822-829	132
830-833	168
834-836	228
837-839	240
840-842	84
843-845 ACL	192
846-848	156
849-855 INCL	210
856-876 INCL	180
877-879 INCL	192
880	84

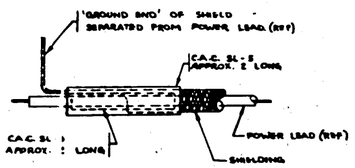
SECTION NO	CONDUIT DIA.	CABLE NUMBERS
104	1/2	801-855 INCL.
105	"	806-810 "
153	"	811-816 "
154	"	817-821 "
253	1/2	822-829 "
258	3/4	830-833 "
175	"	834-836 "
176	"	834-836 "
181	"	834-836 "
182	"	834-836 "
179	"	837-839 "
180	"	837-839 "
177	"	837-839 "
178	"	837-839 "
116	"	840-842 "
164	"	843-845 "
17	"	846-848 "
110	"	834-836 "
118	"	837-839 "
119	"	837-839 "
120	3/4	852-855 "

NOTE: WIRE LENGTH ARE IN INCHES

NOTE: USE THIS ALTERNATE WIRING SET-UP ON PBY-5 ONLY

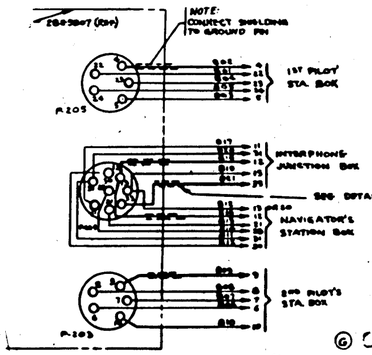
BOMBER'S STATION BOX
1ST PILOT'S STATION BOX
MECHANIC'S STATION BOX
MECHANIC'S STATION BOX
PILOT'S CONTROL BOX
WAIST GUNNER (STBD) STATION BOX
WAIST GUNNER (PORT) STATION BOX
TAIL GUNNER STATION BOX
2ND PILOT'S STATION BOX
NAVIGATOR'S STATION BOX
RADAR OPERATOR'S STATION BOX
BOMBARDIER'S STATION BOX
JUNCTION S-107
JUNCTION S-108
P-202 PLUG
P-201 PLUG
20-SLEEVE 21-TIP
25-RING 29-SLEEVE 30-TIP
P-801
P-101
#1 RECEIVER P-105
#2 RECEIVER P-105
NOTE: RADAR OP'S STATION BOX USED ONLY ON C-9187 & (H)
NOTE: USE THIS ALTERNATE WIRING DIAGRAM FOR RL-24-C EQUIPMENT ONLY (G)

NOTE:
WIRE NUMBERS ARE SHOWN ABOVE WIRES
CONDUIT SECTION NUMBERS ARE SHOWN IN CIRCLES
SHIELDED MICROPHONE CIRCUITS SHOWN BY HEAVY LINES SHOULD HAVE SHIELDING REMOVED BACK TO CONDUIT FITTINGS IN EACH BOX &
ALL SHIELDS GROUNDED THRU INSULATED CONDUCTORS TO GROUND TERMINALS
ALL WIRE "NU-CORD" #20 (Nl30) TINNED COPPER, RUBBER & FABRIC COVERED " 309 WIRE EXCEPT:- 801, 809, 814, 818, 821, 823, 825, 832, 834, 837, 841, 844 & 846 SHIELDED "NU-CORD" #18 (Nl30 AWG # 19/34 WIRE NO. 849 & 855 TO LIST OF "NU-CORD" #18 (Nl30) WIRE

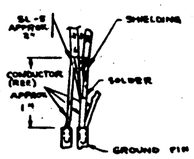


DETAIL "A"

NOTE
17 PIECES EACH 2' LONG OF CAC SL-5 & CAC SL-6 USE ON POWER LEADS IN INTERPHONE JACK BOXES



DETAIL "B"
FOR PBY-5
SHIPS 21 & ON
ON C-9187 & (G)



DETAIL "C"

NOTE:
SL-5 APPROX 12" (4 REQ) ON EACH MAIN HARNESS

NOTE: SEE DETAIL "A" FOR INSULATING MATERIAL

CONT # 28E5769	PBY-5	28E5058
CONT # 9187 &	PBY-5A	28E5624
CONT # 27715		
CONT # 9187 &		
CONT. 8876 (Nl30)		

NOTE: SEE DETAIL "A" FOR INSULATING MATERIAL FOR ALTERNATE RL-24-C ON CONT. #9187 & SHIPS 131 & UP

				UNLESS NOTED	
PART NO	STOCK	MATERIAL	SPEC	.0	.2 .3 .4 .5
PARTS LIST FOR ASSY					

AC			
NAVY NONE	NONE	1-9-41	1-9-41
FIRST PRINT	FINISH	DRAFT	CHECK

NAME WIRING DIAGRAM - ELEC. - RL-24B INTERPHONE

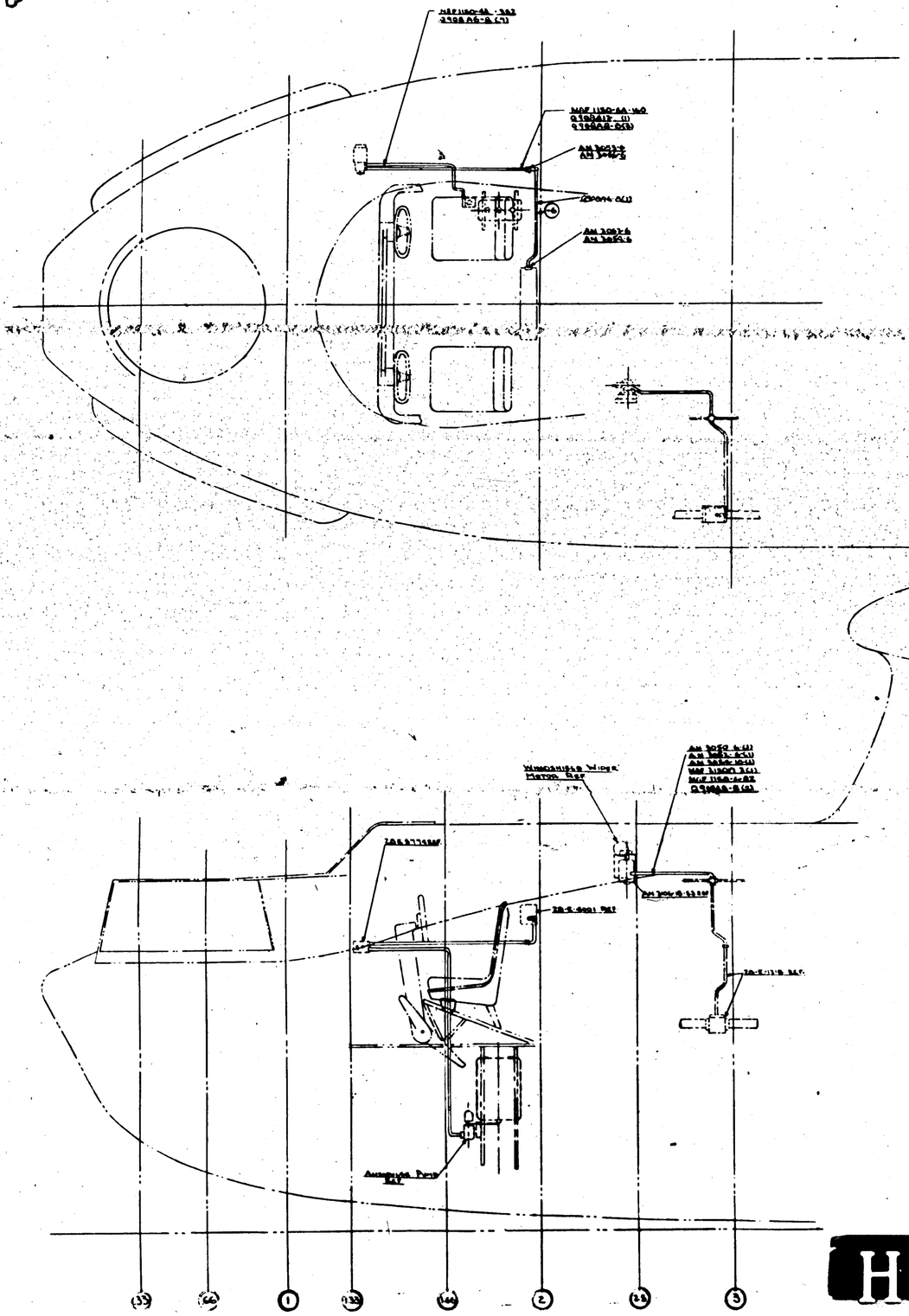
CONSOLIDATED AIRCRAFT CORP

CONT NO. J 28E 5769

H 256

R

LET	DESCRIPTION	DATE	BY	LET	ALTERATIONS	DATE	BY
D	ADD ASSY 28E5773-503						
C	ADD ASSY 28E5773-501						



Notes:
1. Bond in accordance with 28E6047
2. Finish
   Rigid Conduit - P-AP Outside Only
   Flex Conduit - None

* P21 Primer
  Aluminized Primer

Centerline Tooling Holes 100-100
Centerline Tooling Holes 1-2

E-28E5773-3 and 28E5773-5 Ref. Only

H 257

PART NO.	STOCK	MATERIAL	SPEC	-2	-3	-4	-5	-6	-7
PARTS LIST PER ASSY.				1	1	1	1	1	1
A1									
DRAFT									
ENGR PROJ	PROJ								

INSTALLATION - FUEL VALVE SELECTOR CONDUIT

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

J 28E5773

R

Reproduced 4/21/42 DNB

SEC. "A-A"

AN 820-10-16
AC 365-D1032
AN 960-10
AN 815-8R
AN 935-10
C 7108-AL10

MAKE BOTTOM CORNERS CLOSE FIT

SEC "B-B"

MATERIAL NOTE

NOTES:
1. ALL BEND & RELIEF RADII 1/16
2. FINISH P-INSIDE, P2DBL OUTSIDE
3. DO NOT FINISH 11/32 & 13/32 Ø HOLES FOR 1/32 RADIAL DIST. OUTSIDE.

H 258

ENG. FILE

PART NO.	STOCK	MATERIAL	SPEC	-1	-2	-3	-4	-5
	PARTS LIST FOR ASSY			-0	-2	-3	-4	-5

NAVY: NOTED — MATERIAL: NOTED — HEAT TREAT — FINISH

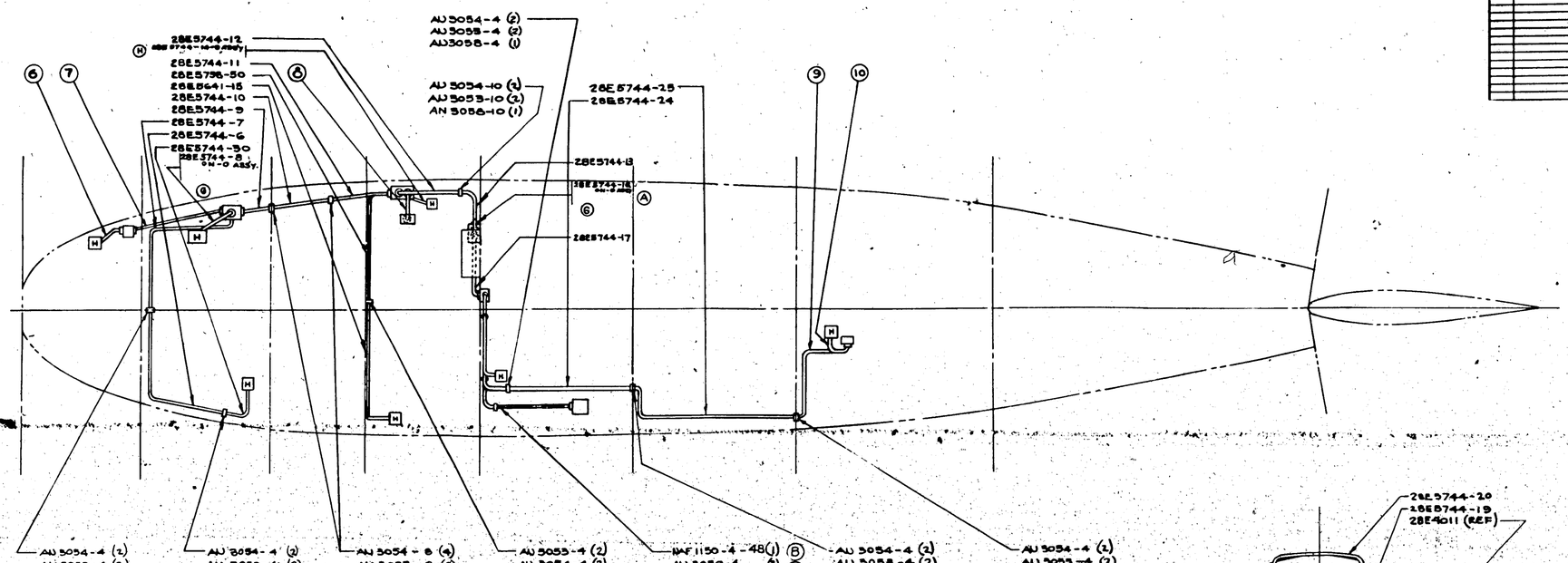
NAME: BOX DETAIL - R.H. - PILOT'S ANITCH PANEL

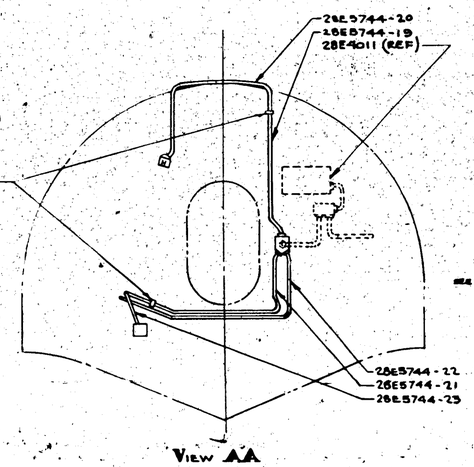
CONSOLIDATED AIRCRAFT CORP

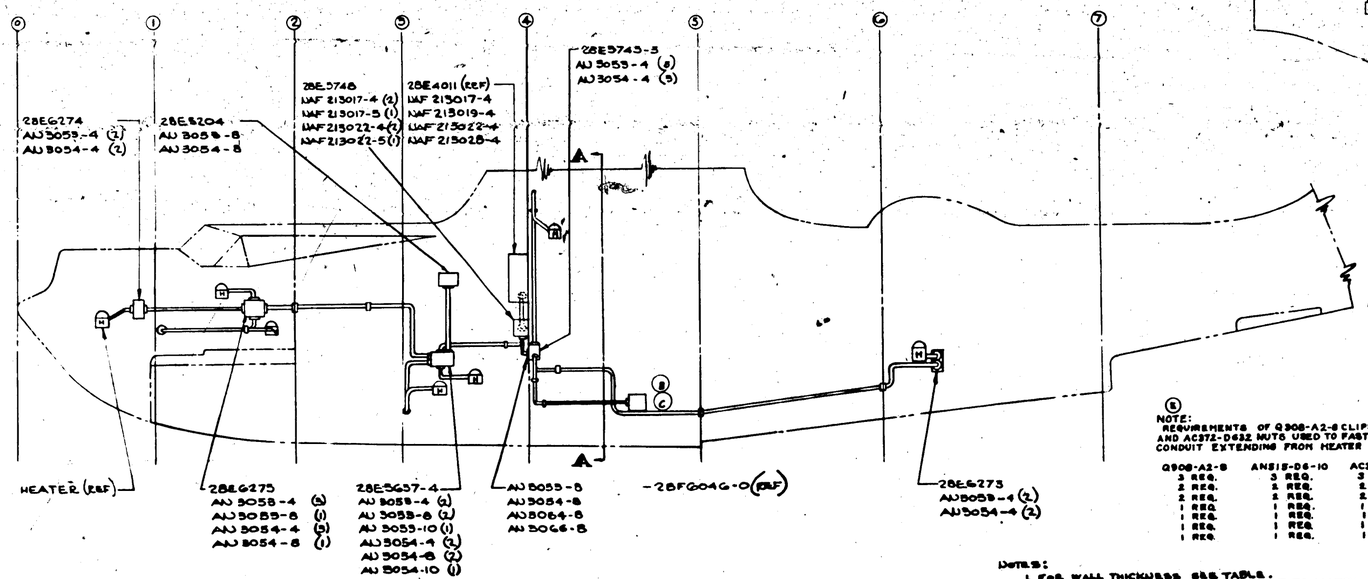
SIZE J — 28E5807

MFT	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	28E5744-11 -26-11 WAS 28E5744-11 -24-11 PER ECN 4466	28-8-1945	
B	ADD -20 -5 -11 (1) WAS 28E5744-11 -20-11 (1) PER ECN 4466	28-9-1945	
C	28E5744-11 -14 (1) WAS 28E5744-11 -20-11 (1) PER ECN 4466	1-10-45	
D	ADD 28E5744-25 -23 (1) WAS 28E5744-25 -21 (1) PER ECN 4466	29-10-45	
E	ADDED NOTE "INSTALL ---- TYPE"	29 JAN 46	
F	DELETED 28E5744-13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25 -26 -27 -28 -29 -30 -31 -32 -33 -34 -35 -36 -37 -38 -39 -40 -41 -42 -43 -44 -45 -46 -47 -48 -49 -50 -51 -52 -53 -54 -55 -56 -57 -58 -59 -60 -61 -62 -63 -64 -65 -66 -67 -68 -69 -70 -71 -72 -73 -74 -75 -76 -77 -78 -79 -80 -81 -82 -83 -84 -85 -86 -87 -88 -89 -90 -91 -92 -93 -94 -95 -96 -97 -98 -99 -100 -101 -102 -103 -104 -105 -106 -107 -108 -109 -110 -111 -112 -113 -114 -115 -116 -117 -118 -119 -120 -121 -122 -123 -124 -125 -126 -127 -128 -129 -130 -131 -132 -133 -134 -135 -136 -137 -138 -139 -140 -141 -142 -143 -144 -145 -146 -147 -148 -149 -150 -151 -152 -153 -154 -155 -156 -157 -158 -159 -160 -161 -162 -163 -164 -165 -166 -167 -168 -169 -170 -171 -172 -173 -174 -175 -176 -177 -178 -179 -180 -181 -182 -183 -184 -185 -186 -187 -188 -189 -190 -191 -192 -193 -194 -195 -196 -197 -198 -199 -200 -201 -202 -203 -204 -205 -206 -207 -208 -209 -210 -211 -212 -213 -214 -215 -216 -217 -218 -219 -220 -221 -222 -223 -224 -225 -226 -227 -228 -229 -230 -231 -232 -233 -234 -235 -236 -237 -238 -239 -240 -241 -242 -243 -244 -245 -246 -247 -248 -249 -250 -251 -252 -253 -254 -255 -256 -257 -258 -259 -260 -261 -262 -263 -264 -265 -266 -267 -268 -269 -270 -271 -272 -273 -274 -275 -276 -277 -278 -279 -280 -281 -282 -283 -284 -285 -286 -287 -288 -289 -290 -291 -292 -293 -294 -295 -296 -297 -298 -299 -300 -301 -302 -303 -304 -305 -306 -307 -308 -309 -310 -311 -312 -313 -314 -315 -316 -317 -318 -319 -320 -321 -322 -323 -324 -325 -326 -327 -328 -329 -330 -331 -332 -333 -334 -335 -336 -337 -338 -339 -340 -341 -342 -343 -344 -345 -346 -347 -348 -349 -350 -351 -352 -353 -354 -355 -356 -357 -358 -359 -360 -361 -362 -363 -364 -365 -366 -367 -368 -369 -370 -371 -372 -373 -374 -375 -376 -377 -378 -379 -380 -381 -382 -383 -384 -385 -386 -387 -388 -389 -390 -391 -392 -393 -394 -395 -396 -397 -398 -399 -400 -401 -402 -403 -404 -405 -406 -407 -408 -409 -410 -411 -412 -413 -414 -415 -416 -417 -418 -419 -420 -421 -422 -423 -424 -425 -426 -427 -428 -429 -430 -431 -432 -433 -434 -435 -436 -437 -438 -439 -440 -441 -442 -443 -444 -445 -446 -447 -448 -449 -450 -451 -452 -453 -454 -455 -456 -457 -458 -459 -460 -461 -462 -463 -464 -465 -466 -467 -468 -469 -470 -471 -472 -473 -474 -475 -476 -477 -478 -479 -480 -481 -482 -483 -484 -485 -486 -487 -488 -489 -490 -491 -492 -493 -494 -495 -496 -497 -498 -499 -500 -501 -502 -503 -504 -505 -506 -507 -508 -509 -510 -511 -512 -513 -514 -515 -516 -517 -518 -519 -520 -521 -522 -523 -524 -525 -526 -527 -528 -529 -530 -531 -532 -533 -534 -535 -536 -537 -538 -539 -540 -541 -542 -543 -544 -545 -546 -547 -548 -549 -550 -551 -552 -553 -554 -555 -556 -557 -558 -559 -560 -561 -562 -563 -564 -565 -566 -567 -568 -569 -570 -571 -572 -573 -574 -575 -576 -577 -578 -579 -580 -581 -582 -583 -584 -585 -586 -587 -588 -589 -590 -591 -592 -593 -594 -595 -596 -597 -598 -599 -600 -601 -602 -603 -604 -605 -606 -607 -608 -609 -610 -611 -612 -613 -614 -615 -616 -617 -618 -619 -620 -621 -622 -623 -624 -625 -626 -627 -628 -629 -630 -631 -632 -633 -634 -635 -636 -637 -638 -639 -640 -641 -642 -643 -644 -645 -646 -647 -648 -649 -650 -651 -652 -653 -654 -655 -656 -657 -658 -659 -660 -661 -662 -663 -664 -665 -666 -667 -668 -669 -670 -671 -672 -673 -674 -675 -676 -677 -678 -679 -680 -681 -682 -683 -684 -685 -686 -687 -688 -689 -690 -691 -692 -693 -694 -695 -696 -697 -698 -699 -700 -701 -702 -703 -704 -705 -706 -707 -708 -709 -710 -711 -712 -713 -714 -715 -716 -717 -718 -719 -720 -721 -722 -723 -724 -725 -726 -727 -728 -729 -730 -731 -732 -733 -734 -735 -736 -737 -738 -739 -740 -741 -742 -743 -744 -745 -746 -747 -748 -749 -750 -751 -752 -753 -754 -755 -756 -757 -758 -759 -760 -761 -762 -763 -764 -765 -766 -767 -768 -769 -770 -771 -772 -773 -774 -775 -776 -777 -778 -779 -780 -781 -782 -783 -784 -785 -786 -787 -788 -789 -790 -791 -792 -793 -794 -795 -796 -797 -798 -799 -800 -801 -802 -803 -804 -805 -806 -807 -808 -809 -810 -811 -812 -813 -814 -815 -816 -817 -818 -819 -820 -821 -822 -823 -824 -825 -826 -827 -828 -829 -830 -831 -832 -833 -834 -835 -836 -837 -838 -839 -840 -841 -842 -843 -844 -845 -846 -847 -848 -849 -850 -851 -852 -853 -854 -855 -856 -857 -858 -859 -860 -861 -862 -863 -864 -865 -866 -867 -868 -869 -870 -871 -872 -873 -874 -875 -876 -877 -878 -879 -880 -881 -882 -883 -884 -885 -886 -887 -888 -889 -890 -891 -892 -893 -894 -895 -896 -897 -898 -899 -900 -901 -902 -903 -904 -905 -906 -907 -908 -909 -910 -911 -912 -913 -914 -915 -916 -917 -918 -919 -920 -921 -922 -923 -924 -925 -926 -927 -928 -929 -930 -931 -932 -933 -934 -935 -936 -937 -938 -939 -940 -941 -942 -943 -944 -945 -946 -947 -948 -949 -950 -951 -952 -953 -954 -955 -956 -957 -958 -959 -960 -961 -962 -963 -964 -965 -966 -967 -968 -969 -970 -971 -972 -973 -974 -975 -976 -977 -978 -979 -980 -981 -982 -983 -984 -985 -986 -987 -988 -989 -990 -991 -992 -993 -994 -995 -996 -997 -998 -999 -1000	29 JAN 46	
G	INSTALLED 28E5744-8	5-2-46	
H	ADDED 28E5744-47	5-2-46	
J	REVISED "J" ASSY FOR PARTS LIST PER ECN 4(3)464	7 MAY 46	







CONDUIT SIZE	WALL THICKNESS
¼ O.D.	.032
5/16 O.D.	.032
⅜ O.D.	.036
½ O.D.	.058

NOTE:
REQUIREMENTS OF Q908-A2-8 CLIPS, AN515-D6-10 SCREWS, AND AC372-D632 NUTS USED TO FASTEN TO STRUCTURE THE CONDUIT EXTENDING FROM HEATER TO SOLENOID.

Q908-A2-8	AN515-D6-10	AC372-D632	LOCATION
3 REQ.	3 REQ.	3 REQ.	MECHANICS HEATER
2 REQ.	2 REQ.	2 REQ.	RADIO OPER. "
2 REQ.	2 REQ.	2 REQ.	NAVIGATOR'S "
1 REQ.	1 REQ.	1 REQ.	BOMB "
1 REQ.	1 REQ.	1 REQ.	PORT WAIST "
1 REQ.	1 REQ.	1 REQ.	STARBOARD "
1 REQ.	1 REQ.	1 REQ.	TUNNEL "

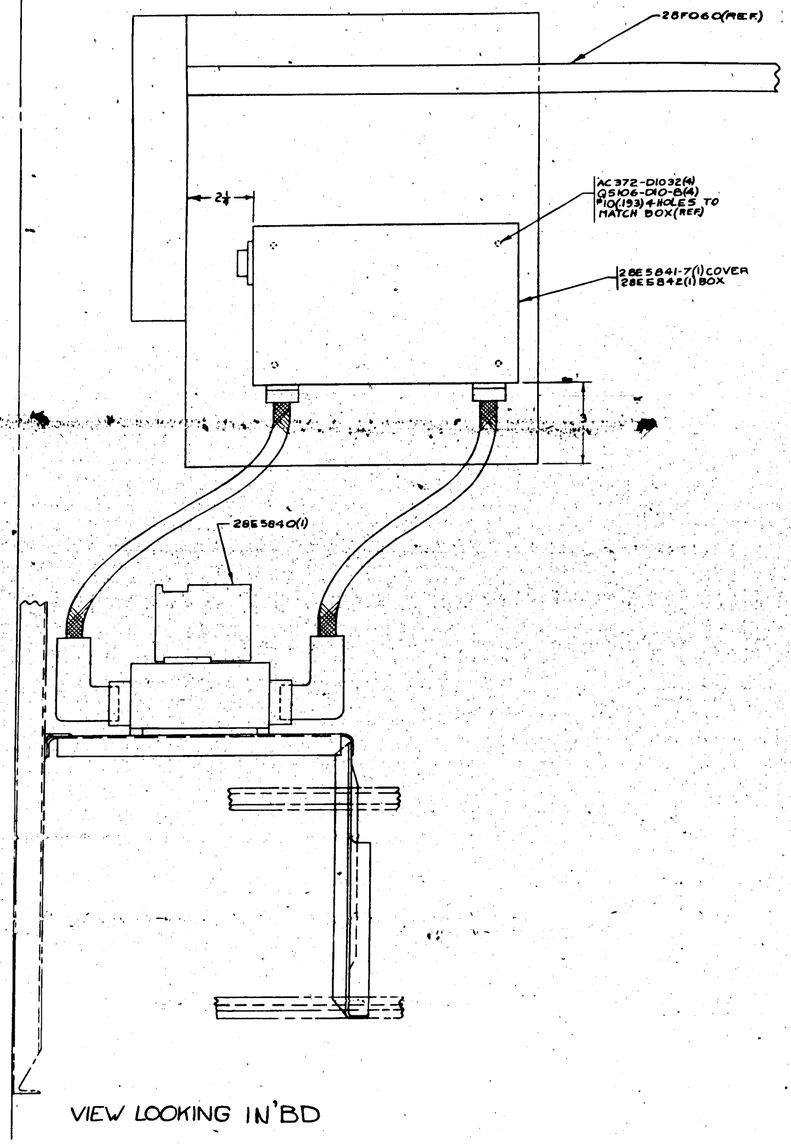
NOTES:
1. FOR WALL THICKNESS SEE TABLE.
2. FINISH (1) PRIME 1 (1) HOMESITED COAT TO MATCH ADJACENT SURFACES.
3. BEND IN ACCORDANCE WITH 28E4027.
4. CONDUIT TO HEATERS ARE FLARED AT HEATER ENDS AND REQUIRE NO FITTINGS AT THESE ENDS.
5. CONDUIT LENGTHS ARE APPROXIMATE. SHOP TO DETERMINE CORRECT LENGTHS ON FIRST INSTALLATION & NOTIFY ENGR. DEPT.
6. Q CLIPS ARE NOT SHOWN ON DRWG. SHOP TO CLAMP CONDUIT AT SUITABLE INTERVALS AS SHIP ON FIRST INSTALLATION & NOTIFY ENGR. DEPT.
7. ON ALL CONDUIT BENDS DRILL 1/8 DRAIN HOLE IN LOWEST POINT OF BEND (WHEN SHIP IS ON D.C.)
8. INSTALL CANNON PLUGS (AN3106-10S-2S -7282) ON HEATER LEADOUT LEADS AT TIME OF HEATER INSTALLATION.

CONT. 28E6476 "B3" AU

| | | |

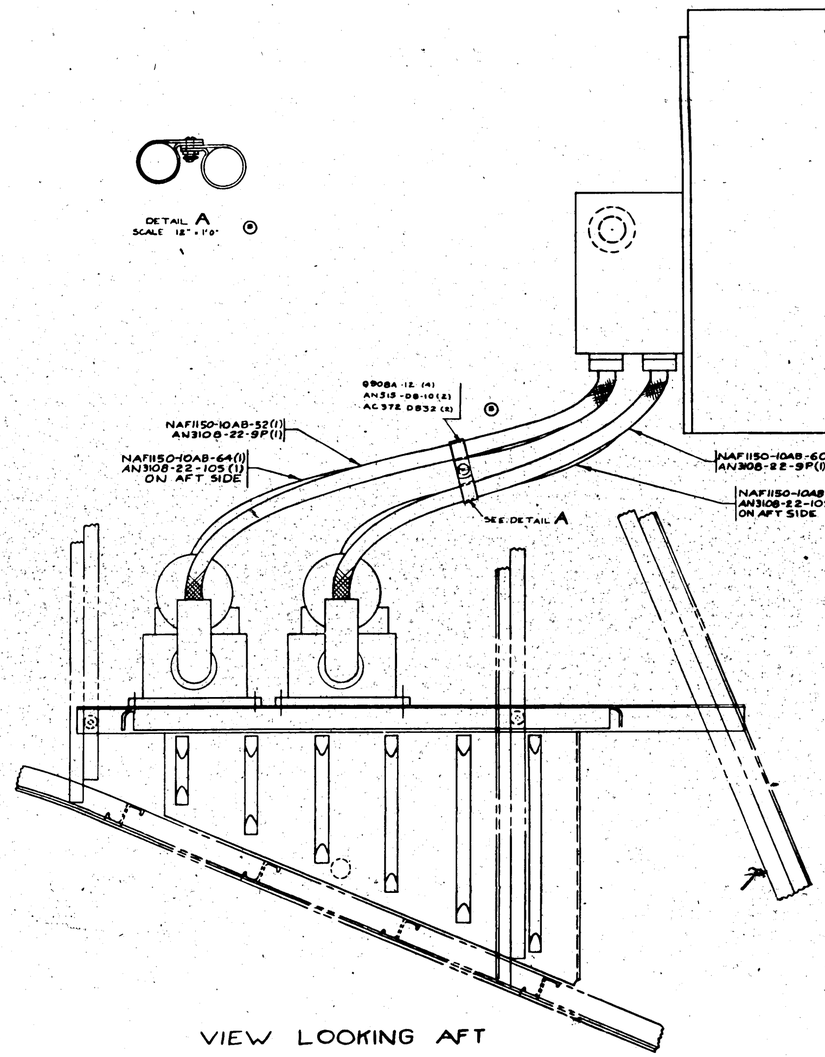
LET	ALTERATION	DATE	BY
A	ADDED NOTE "SHELLAC ——— WITH SHELLAC" TO B/M 28E5855 (NO WT. CHG)	8-10-43	LMC
B	ADDED DETAIL A MATL. SEE DETAIL A" ON FACE OF DWG. 5 IN B/M ADDED AN960A516(4), AN815-8A10A(2) & AC 372 D832 (2) NO CHG. IN WT.	12-16-43	JA

BLKD



VIEW LOOKING IN'BD

DETAIL A
SCALE 12" = 1'0"



VIEW LOOKING AFT

Ⓐ NOTE
1. SHELLAC 28E5855 TO INSIDE OF COVER 28E5841-7 & COVER WITH SHELLAC.

ITEM	PART No.	STOCK	MATERIAL	SPEC	LT REQ -0	LT REQ -2	LT REQ -3	LT REQ -4	LT REQ -5
1	Q908A-12				4	4	4	4	4
2	AN315-08-10				2	2	2	2	2
3	AC372 D832				2	2	2	2	2
4	NAF1150-10AB-68							1	1
5	NAF1150-10AB-64						1		
6	NAF1150-10AB-60					1			
7	NAF1150-10AB-52				1				
8	AN3106-810-4				2	2	2	2	2
9	AC372-D1032				4	4	4	4	4
10	AN3108-22-10S						1	1	1
11	AN3108-22-9P				2	2	1	1	1
12	28E5840 BOX				1	1	1	1	1
13	28E5841-7 COVER				1	1	1	1	1
14	28E5842				1	1	1	1	1

PARTS LIST FOR ASSY

A C			12-43	
PAINT			1-2-43	
HEAT TREAT	FINISH		DRAFT	CHECK

NAME: INSTALL-ELEC-A.C. CONDENSER BOX
CONSOLIDATED AIRCRAFT CORP. San Diego Calif.

OPP HAND: WING J | DASH 28E5843

PBY-5A 28E5843

ENG. NO. 2(0)444-A
A.A. 164-1-2

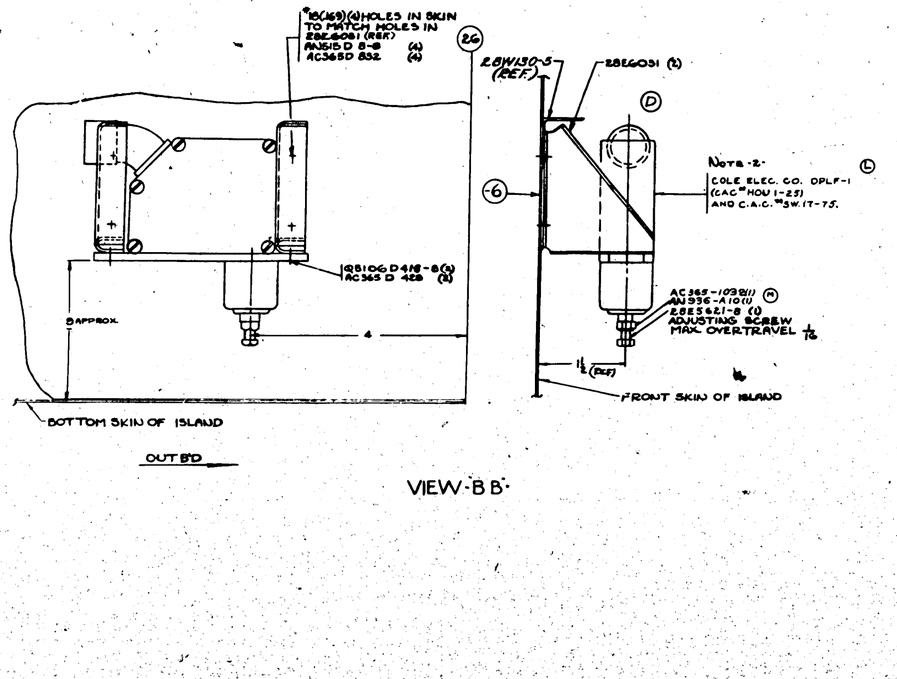
REQUIREMENTS PER AIRPLANE: REPLACED 141 SHIP NO.; REPLACED BY; SCALE 6"=1'-0"

APPROVED FOR TOOLING BY
R.B. HUMPHREYS 1-7-43

H 260

28E5843

R



LET	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
A	CHANGED VIEW A TO VIEW [illegible]				NA 2 OES 810 CHG'D PARTS		
	CHANGED NOTE 2 TO NOTE 1				FROM [illegible] 1 OU TO CONF 2 167A		
	ITEM 1 AN 3936-A10 CHG'D TO AC 365-1038				"R" TO CAC. CAT 5.180 WT. CHG'D		
B	QQ 106 D 416-8 WAS [illegible]				CHG'D DIM. "A" FROM [illegible]		
	QQ 106 D 416-8 WT. CHG NEG.				ADDED TO STA 100 A WIRE		
C	ADDED 2 ITEM WAS [illegible]				CHG'D BRACKET ON I.B. FROM .090		
	ADDED 28E6034-8 NEG.				.125 THK. TO .090 & .190 THK.		
D	WT. CHG.				ADDED CAUC. WT. NOTATION		
	ADDED 28E6034-8 (1) NEG.				& REVISED PART NO. -		
E	REMOVED 28E6031-8 (1)				PLANE BLOCK TO AGREE		
	ADDED AN 515 D 8-8 (4)				WITH EA 6A6A5		
	AC 365-1038 (1)				NOTE #1 WAS "MICRO SW. HOUS-		
	AN 3936-A10 (1)				ING MUST BE BONDED TO WING		
	CAC "HOU 1-23 (1) REVISED				STRUCTURE IN ACCORDANCE		
	VIEW "A" & "B"				WITH EPS-652" NOTE 4 WAS		
E	REVISED WIR WT. CHG.				"FLOAT UP LIMIT SWITCH ASS'Y		
F	ADDED VIEW "C" (28E6031-8 (1))				R.H. CASE 45° ELBOW MICRO-		
	(REF. 28E6031-8), 28E6030)				AIR SWITCH HOUSING TYPE "H"		
	ITEM 1 AC 365-1038 MICRO AIR				CAT "MT-11 MICRO SW. TYPE		
	AN 3936-A10 (REF. 28E6030)				BZR-31 WAS "CAC SW. IT-75"		
	AN 515 D 8-8 (4) (REF. 28E6030)				MATE "HOU WAS BRACKET-AIR SW		
	AN 515 D 4-8 (2) (REF. 28E6030)				ITEM 1 (01) ADDED CAC		
	AC 365 D 428 (2) (REF. 28E6030)				"HOU 1-23 (1) NOTE (01)		
	AN 960 C 8 L (2) (REF. 28E6030)				WT. CHG. NEG.		
	ADDED 28E6034-8 (1)			M	ADDED AC 365-1038 (1) AN 3936-A10		
	ADDED 28E6034-8 (1)				(1) REVISED AN 960 D 8 L WT. CHG. NEG.		
	CHG. NOTATION, ADDED NOTE 5						
	ITEM 5 WAS [illegible]						
G	ADD - DASH 2 FOR PREV. S						
	CHANGE CAC CR 4 BY ON -						

E.O. A 46835 A

E.O. A 50847 A

E.O. A 51289

E.O. A 51289

E.O. A 51289

1 2 3 4 5 6

BUNK INSTALLATION ON PBY-1
28F0422 BUNK INSTALLATION ON 28F0421-20

°59 STRINGER
°85 STRINGER
°57 STRINGER
10½
22F049-18
22F049-19
22F049-20
22F047-33
22F047-34
22F047-35
28F203-1 FRAME
28F201-1 COVER

MECHANICS COMPARTMENT
LIVING COMPARTMENT
FOREWARD
E HULL
B.F. °3.25
B.F. °3.5
B.F. °3.75
B.F. °4.25
B.F. °4.5
B.F. °4.75
BULKHD °5
BULKHD °6

MAY BE USED - 28F0122
ATTACH IN CONVENIENT
POSITION FOR FOLDING BUNKS

28F200 - COVER
28F202 - FRAME
22F049-15
22F049-16
22F049-17
22F047-30
22F047-31
22F047-32
2⅜
3⅛
4⅛
2⅞
SEE VIEW D-D
SEE VIEW E-E
AL30-6-G
SEE VIEW F-F
ALSO F-F'
POST SIDE
DECK LINE
53½
6½
26⅝ (REF.)
25½ (REF.)

AN396-31
G7003-ALI7.032 *
AN960-8S-2
AN960-416
SECTION A-A
L.H. INST. EFF. ON PBY-1 & 28F0421-20
R.H. INST. EFF. ON PBY-5 ONLY
SECTION B-B
½ DIA x 25" LG. LACING CORD
E HULL

SECT. SHOWING
LOCATION OF BUNKS
SCALE 3½"-1'-0"

6⅞
45°
SECTION J-J FOR -85-13
SCALE 6"-1'-0"

BEAM 850 T.001
ON 4032-T6
AN 394-37
AN960-416
AN960-8S-2
6⅛
AC365D1032
AN3-D04A
THIS HOLE TO BE LOCATED
BY REALY TELESCOPED TUBES
WITH BUNK LEVEL.
½ DRILL - 2 HOLES FOR
AN4482-06-14 EACH STRINGER

L.H. SHOWN
LEGS OF THESE
ANGLES TO BE
VERTICAL FOR
ANGLES
SEE DETAIL "G"

NO		Y
-9	LH	6°
-10	RH	6°
-11	LH	0°
-12	RH	0°
-13	LH	1°

NO		X
-4	LH	6°
-5	RH	6°
-6	LH	6°
-7	RH	6°
-8	LH	1°

DETAIL "G"

SECTION C-C
TYPICAL SECT. SHOWING
ATTACH BUNK LEGS TO
HULL STRINGERS
SCALE 6"-1'-0"

FOREWARD
B.F. °4.25
B.F. °4.75
AN3DD4A
AC365D1032
28F3109-2
3 1¼ x ⅜ ALLOY
EAT ANGLE
DIE "A"-78P
AN4482-06

VIEW D-D
TYPICAL ATTACH MECHANICS
COMPARTMENT BUNK TO B.F.
SCALE 12"-1'-0"

NOTE:
-9 REQ'D @ 4.25 ONLY ON PBY-5 °55
& 6N. 28F3109-2 FASTENS DIRECTLY
TO LNG. ON BELT FRAMES @ 4.5 & 4.75
ON PBY-5 °36 & CN.

ALL AL ALLOY SHEET 3PEC 4/MIL CONDITION T) ALLOY 61T EXCEPT AS NOTED
ALL AL ALLOY EXTRUSIONS 3PEC 6MIL CONDITION T) ALLOY 61T EXCEPT AS NOTED
HEAT TREAT ALL CONDITION A MATERIAL PER 3AEC 3663
RIVETS AL. ALLOY EXCEPT AS NOTED

VIEW G-G
ATTACH TO B.F. °3.25 FOR
-55 ASS'Y
AN3DD4A
AC365D1032
AN960D10
21
AN442-AD5(3)
QB16-D6-4(8)
2¼
2¾
DETAIL OF -21
ON AL ALLOY SHEET
3PEC 4/MIL-T 2-P-2A

28F3108-3 L.H.
28F3109-4 R.H.
AT B.F. °3.5 (EFF. ON PBY-1 & 28F0421-20
(EFF. ON PBY-1 ONLY.
28F3103-7 L.H.
28F3103-8 R.H.
AT B.F. °3.75 EFF. ON PBY-1 & 28F0421-20
EFF. ON PBY-1 ONLY.
28F3103-5 EFF. ON 28F0421-35
AC365D1032
AN3D4A
AN960D10
QB16-D6-6
DRILL TO SUIT BULKHD SHEETS
MIN. EDGE DISTANCE ⅛"

VIEW F-F
ATTACH TO B.F. °3.5 & °3.75
SCALE 1½"-1'-0"
FOR ATTACHMENT AT
STA. 330 FOR -55 ASS'Y
SEE VIEW F-F'
AN3DD4A
AC365D1032
AN3D4A
AN442-AD5
QB16-D6-4
22
2¼
VIEW E'-F'
DETAIL OF -22
ON AL ALLOY SHEET
3PEC 4/MIL 2-P-2AP
STA 335
AN4482-D6

AN3DD4A
AC365D1032
AN960-D10-88
AC365-D1032
AN960-D10
2 EACH BEND
45°
°59 STRINGER
-15Z-16
BEND ENDS
AS SHOWN
28B4082-4 DIAGONAL
BRACE (REF.) °55
°59 STRINGER
QB16-D6-24
2 REQ'D

VIEW H-H

VIEW E-E
ATTACH TO B.F. °3.25
SCALE 1½"-1'-0"
EFFECTIVE FOR -01-20 ASSYS ONLY

28F3109-3 L.H. - EFFECTIVE ON PBY-1 AND 28F0421-20.
28F3109-4 R.H. - EFFECTIVE ON PBY-1 ONLY.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-17 PRIMER
GP	GREEN PRIMER
C	CADMIUM PLATE

4 3 6 7 9 10 11 12
TO BE 1¼ x ⅜ EAT ANGLES 6⅞ LONG
DIE "A"-78P

* TO BE USED ON PBY-5 °55 & ON
& 28-6 RE °81 & ON

NOTE:-1 REQ'D FOR PBY-5
@ 25 & ON.

-6-11	PBY-5A	28F4093	2 EA
-6-9	PBY-5A	28F4093	1 EA
-55	28-3MN	28F1002	1
-7-12	28-3MN, AMN	28F2022	3 EA
-7-12	28-3MN, AMN, ANN	28F3854	3 EA
-6-9	28-3MN, AMN, ANN	28F4038	1 EA
-6-11	28-3MN, AMN, ANN	28F3854	2 EA
-7-12	PBY-5B	28F3854	3 EA
-6-9	PBY-5B	28F4038	1 EA
-6-11	PBY-5B	28F4039	2 EA

DASH NO	MODEL	NEXT ASS'Y	Req

-4-9	28-5MA	28F4090 1 EA
-20	28-5ME	28F3854
-1	28-5MC	28F3854
-0	28-5ME	28F4090
-55	PBY-5	28F1002
-4-9	28-5ME	28F4099 1 EA
-6-11	28-5ME	28F4099 2 EA
-7-12	28-5ME	28F5054 3 EA
-4-6-9-11	2PBY-5A	28F4099
-7-12	2(PBY-5A	28F4099
7-12	PBY-5	28F2022 3 EA
-20	PBY-5	28F1002
-36	PBY-5	28F1002
-4-9	PBY-4	28F1002
-20	PBY-3	28F1002
-20	PBY-2	28F1002
-21	PBY-1	28F1002
	XPBY-1	28F1002

REPLACED	
REPLACED BY	
LIMIT OR JUSTIFYING BRACKET (ENGINEERING SPECIFIES)	*DIS

ENGR		8-3-37	
APPROVED		DATE	
SCALE	FULL	SHEET	
AC			
MAT'L	NOTED	NOTED	NOTED
	MATERIAL	SPEC.	HEAT TREAT

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.

SUPPLIES & EQUIPMENT CLASSIFICATION		
I FY	ALTERATION	DATE
AC	PHOTO-TRACE-T-NOSTECH-8-16	

PARTS LIST PER ASSY						
G7003-ALI7						4
AN 306A						2
28F0421-22						1
22F0122	–	–	–	–	–	–
NAF 2626 X	3	3	3	3	3	3
AN960 D10	4	4	2	8	4	4
AN925-416	–	–	–	–	–	–
AN442-10A	56	56	56	56	56	56
AN442-D4	56	56	56	56	56	56
AN 380-8S-2	16	16	12	12	12	12
AN 394-37	9	9	16	6	6	6
AN394-37	9	9	6	6	6	6
AC365-4D10						8
AN 3DD4A						32
AN3DD-D6 10	2	2	2	2	2	2
AC365-D1032	8	8	8	8	8	34
AN960-416	12	12	18	18	18	18
QB16-D6-4						8
QB16-D6-6	6	6	8	8	8	8
QB16-D6-24	2	2	2	2	2	2
28F3189-6	/	/	/	/	/	/
-6	/	/	/	–	/	/
-5	/	/	/	2	/	/
-4	/	/	/	/	/	/
-3	/	/	/	/	/	/
28F3109-7	/	/	/	–	/	/
22F049-39	2	2	/	/	/	/
-18	2	2	/	/	/	/
-10	2	2	/	/	/	/
-17	/	/	/	/	/	/
-16	/	/	/	/	/	/
22F049-40	/	/	/	/	/	/
22F047-36	2	2	/	/	/	/
-34	2	2	/	/	/	/
-33	2	2	/	/	/	/
-32	/	/	/	/	/	/
-31	/	/	/	/	/	/
22F047-30	/	/	/	/	/	/
AN515 D8-7	/	/	/	4	/	/
28F3107-2	3	3	3	3	/	/
28F0121-21	/	/	/	–	/	/
28F0203-1	/	/	/	–	/	/
28F0203	/	/	/	–	/	/
28F0202	/	/	/	–	/	/
28F0201-1	/	/	/	–	/	/
28F0201	/	/	/	/	/	/
28F0200	/	/	/	/	/	/
28F0121-17	2	2	2	2	/	/
28F0121-16	/	/	/	/	/	/
-15	2	2	/	/	/	/
-13	2	2	2	2	/	/
-12	2	2	/	/	/	/
-11	2	2	2	2	/	/
-10	2	2	/	/	/	/
-9	/	/	/	/	/	/
-8	2	2	2	2	/	/
-7	2	2	/	/	/	/
-6	/	/	/	–	/	/
-5	2	2	2	2	/	/
-4	/	/	/	/	/	/
-3	/	/	/	/	/	/
-2	3	3	3	3	/	/
-1	3	3	3	3	/	/
28F0421-2	1	1	1	1	/	/
	3PR-0001	3PR-0001	3PR-0001	3PR-0001	3PR-0001	3PR-0001

B.H.	MODEL	NEXT ASS'Y	REQ

REQUIREMENTS PER AIRPLANE	MAT.	PARTS LIST PER ASSY

NAME	DWG NO.	DWG HAND
BUNK INSTALLATION FURNISHING	J 28F0121	

H 262

R 120482

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	TRACED NO WT. CHG.	7/8/54	

DETAIL E
INSTALL OF-13
ON-8 ASSY.

SECTION CC

VIEW A A
6"=1'-0"

DETAIL-4
12"=1'-0"

DETAIL -5
12"=1'-0"

VIEW F F

NOTE: APPLY CEMENT TO BOTH SURFACES THEN PRESS FIRMLY TOGETHER

HOISTING SLING IN STOWAGE
28H1003 FOR -8 ASSY.
28H1003-20 FOR -12 ASSY.
28H1003-40 FOR -40 ASSY.
28H1003-55 FOR FOR-55 ASSY & -70 ASSY.
28H1003-60 FOR - 60 ASSY
28H1003-64 FOR - 62 ASSY

CLIP TO BE LOCATED ON INSTAL TO BE IN LINE WITH CABLE

INSTAL FOR PBY-5

USE RIVET THAT IS IN BULKHEAD (SEE NOTE)

NOTCH THIS FLANGE AS SHOWN TO CLEAR RIVET IN BULKHEAD IF NECESSARY

BULKHEAD #3
VIEW LOOKING AFT
SCALE 3"=1'-0"

VIEW D-D
6"=1'-0"

DETAIL -15
6"=1'-0"

-14 ASSEMBLY

DETAIL -3
6"=1'-0"

DETAIL -6&-7
6"=1'-0"

SECTION B B

NOTE:
1. SCREW & NUT FASTENING -4, -5, -6, -7 & -14 INSUBINSTAL.
-35 -50 & -60 APPLIED TO
(-55) PBY-5 SEE ON
(-58)28SMA - ALL ON
(-58)28SMC - ALL
(-60)28SMC - ALL ON
(-58)SMC - ALL
*FOR PBY-5 -10 ASSY C#91876 #9180M, ONE 28N1003-33 REQD FOR EVERY 4TH AIRPLANE.

*SEE NOTE C-91876

C#70496

FINISH CODE	
Z	ALODIC TREATMENT
P	ZYT PRIMER
G.P	GREEN PRIMER
C	CADMIUM PLATE

ITEM	PART NO.	NOMEN.	MATERIAL	SPEC	REQ	REQ	REQ	REQ	REQ
-10	PBY-4	28F1003			1				
-12	PBY-5					1			
-40	PBY-6						1		
-55	PBY-1							1	
-60	PBY-2								1
-58	PBY-5A								
-35	28-3MA								
-50	28-3MC								
-60	28-3MA								
-55	PBY-5	28F1003			1				
-13	28-54MC	28F1003-37			1				
-14	PBY-5A	28F1003-39			1				
-14	28-54MC	28F1003-37			1				
-7	AN515-8R-7	28H1003-57			1				
-7	PBY-5A	28F1003-39			1				
-7	28-54MC	28F1003-37			1				
-4	PBY-5A	28F1003-39			1				
-4	28-54MC	28F1003-37			1				
-6	PBY-5A	28F1003-39			1				
-6	28-54MC	28F1003-37			1				
-5	PBY-5A	28F1003-39			1				
-5	28-54MC	28F1003-37			1				
-3	PBY-5A	28F1003-39			1				
-3	28-54MC	28F1003-37			1				
-2	PBY-5A	28F1003-39			1				
-2	28-54MC	28F1003-37			1				
-1	PBY-5A	28F1003-39			1				
-1	28-54MC	28F1003-37			1				

REQUIREMENTS FOR AIRPLANE	MODEL	NEXT ASSY	NO.

SERIAL NO.	REVISED BY
8-10030 OF 7-22-37	
REPLACED BY	SUPP. BY

SCALE	1"=1'-0"
	*NOTED

STAMP PART NUMBER WHERE SHOWN

PART No.	STOCK	MATERIAL	SPEC	REQ	REQ	REQ	REQ	REQ
	PARTS LIST FOR ASSY			-8	-12	-40	-55	-60, -62
-14 SUB. ASSY								
-7	040X2X8	AL AL SHT.	QQ-A-355-T					
-6	040X2X8	AL AL SHT.	QQ-A-355-T					
-5	040X1 5/8X3 1/2	AL AL SHT.	QQ-A-355-T					
-4	040X2X8	AL AL SHT.	QQ-A-355-T	2	2	2	2	2
-3	040X1 5/8X3	AL AL SHT.	QQ-A-355-T					
-2	040X2X8	AL AL SHT.	QQ-A-355-T					
-1	040X1 5/8X3	AL AL SHT.	QQ-A-355-T					

AN442-D4

-3	064X3X4 1/2	AL AL	QQ-A-355-T	1					
-2	064X3X4 1/2	AL AL	QQ-A-355-T	1					
PARTS ASSEMBLY ON				14					
AC364-AR12					4	22	22	22	22
AC365-0932					6	6	6	6	6
AN515-8R-8					4	6	6	6	6
AN515-8R-7						16	16	16	16
AN515-8R-7						4	16	16	16
							4	4	4
28H1003					1				
28H1003-40							1		
28H1003-55								1	
28H1003-60									1
28H1003-64									

A C NAVY	2P-26P	7/8/54 WHIT MEZ	
HEAT TREAT	FINISH	DRAFT	STOCK STRUC'L MAT'L APPROV ENG

NAME HOISTING SLING FURNISHINGS STOWAGE

OPP HANT

SIZE J | DWG 28F030

H 263

R 28F030

H 264

TABLE 3'-1"-0"

DRAWER 2'-1"-0"

SECT. U-U

SECT. A-A

SECT. B-B

SECT. C-C

SECT. D-D

SECT. F-F

VIEW G-G

SECT. R-R (PBY-1 & PBY-2)

SECT. P-P (PBY-1 ONLY)

SECT. R-R

SECT. T-T

SECT. S-S

DET. AT A-1

DET. AT A-3

DET. AT A-4

DET. AT A-5

DET. AT B-1 FOR DIM. SEE DET. AT A-3

DET. AT B-3 FOR DIM. SEE DET. AT A-3 & C-5

DET. AT B-4 FOR DIM. SEE DET. AT A-3 & A-4

DET. AT B-5 FOR DIM. SEE DET. AT A-3 & C-5

DET. AT C-1 FOR DIM. SEE DET. AT A-3

DET. AT C-3 FOR DIM. NOT SHOWN SEE DETAIL AT A-3

DET. AT C-5 FOR DIM. SEE DET. AT A-3

DET. AT D-1 FOR DIM. SEE DET. AT A-3

DET. AT D-3 FOR DIM. SEE DET. AT A-3 & C-3

DET. AT D-5 FOR DIM. SEE DET. AT A-3 & C-5

DET. AT F-1

DET. AT REINF.

DET. BOTTOM REINF.

DET. REAR CORNER

DET. FRONT CORNER

DET. OF -71

DET. OF DRAWER RETAINING CLIP

DET. DRAWER PARTITION & CLIP

CORNER REINF. .040 AL ALLOY

CORNER REINF. .040 AL ALLOY

-20 GUSSET .030 AL ALLOY

-21 GUSSET .030 AL ALLOY

-22 BRACKET .064 AL ALLOY

-23 BRACKET .064 AL ALLOY

METHOD OF FASTENING TOP

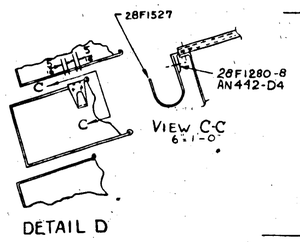
NOTE: ALL ALCLAD PARTS OF NAVIGATOR'S DRAWER MAY BE SPOT WELDED. Q4505-AD3 RIVETS ARE TO BE USED AT ENDS OF SPOT WELDED MEMBERS & SPACED INTERMITTENTLY THRUOUT TO CONFORM WITH SHOP PRACTICE.

NOTE (PBY-2 & PBY-3 ONLY) — ALL END RIVETS TO BE AN442-D6 & ALSO STITCH RIVETS INTER SPACED AT 6" INTERVALS ON ALL SKINS SPOT WELDING APPROX. 1" BC.

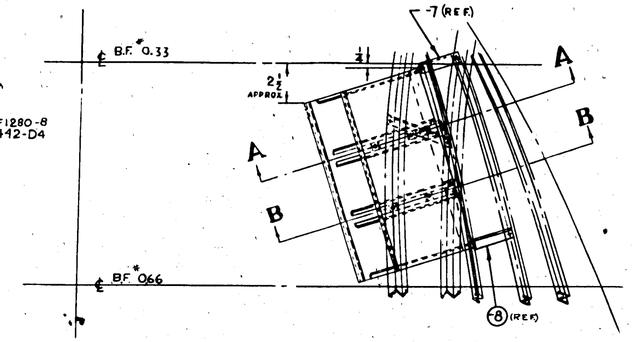
FINISH CODE
Z	ANODIC TREATMENT
P	A-D PRIMER
GP	GREEN PRIMER
C	CADMIUM PLATE

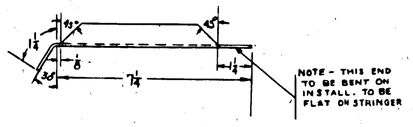
AL	PHOTO TRACED	6/2/43	
AM	SECT. U-U WAS SEC'T. T-T, NO WTCHS.	3-15-45	
AN	Y22-A19T 242 ⅜ WAS 5M008-20		
	X42¾ & Y22 A19T X 34⅜ WAS		
	3M008-30 X 34⅜ -73 WAS -34,		
	-74 WAS -37 WT CHS NEG	6-8-45	

LT	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				N	TRACED, NO WT. CHG.	8-13-42	RUHL

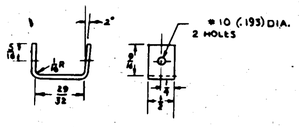


DETAIL D

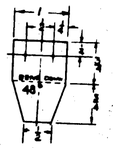




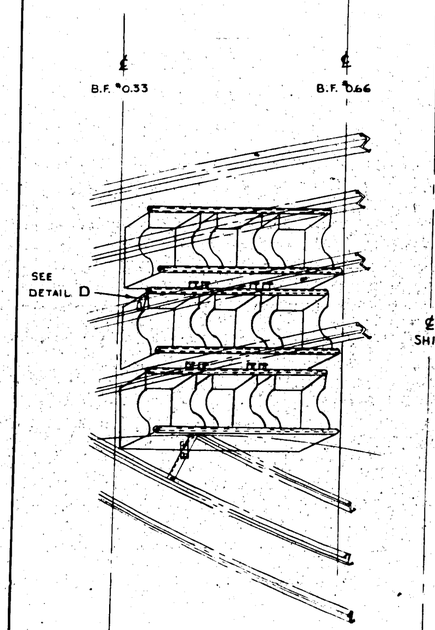
DETAIL OF -8

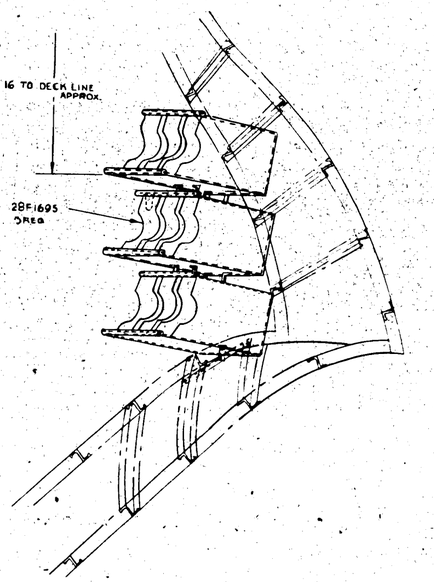


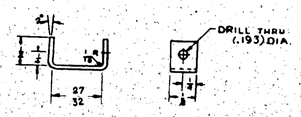
DETAIL OF -10



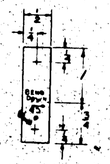
DETAIL OF -2



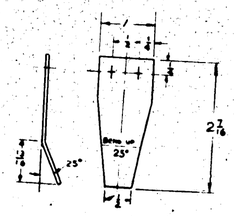




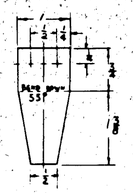
DETAIL OF -9



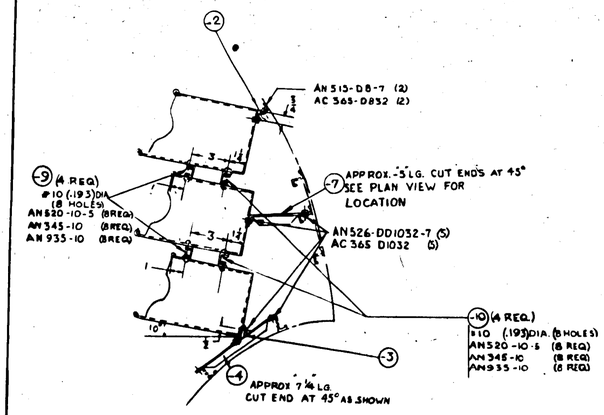
DETAIL OF -3



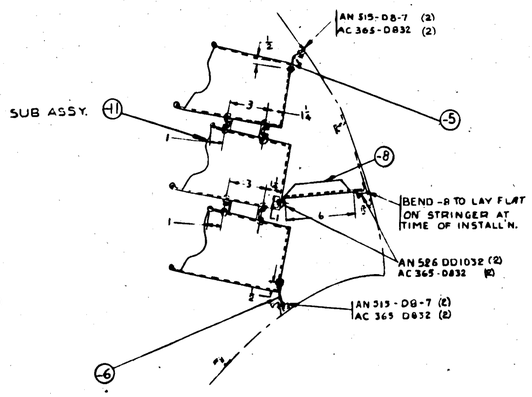
DETAIL OF -6



DETAIL OF -5



SECTION - A-A



*SECTION - B-B

NOTES-
ALL RIVETS AN442-D4 (EXCEPT AS NOTED)

MATERIAL NOTES-
MATERIAL FOR -4 MAY BE:
A- Y-2-A12T x 7⅜, OR
B- K6240 x 7⅜, 24ST AL.AL. EXTR., NAVY SPEC. 46A9-T.

MATERIAL FOR -7 MAY BE:
A- Y-2-A28T x 3⅞, OR
B- K 5401 x 5⅛, 24ST AL.AL.EXTR., NAVY SPEC. 46A9-T

MATERIAL FOR -8 MAY BE:
A- Y-2-A28T x 8⅝, OR
B- K 5401 x 8⅝, 24 ST AL.AL EXTR., NAVY SPEC. 46A9-T

FINISH CODE
A ANODIC TREATMENT
P P.27 PRIMER
AD ALUMINIZED PRIMER
C CADMIUM PLATE
GP GREEN PRIME

C-70996
C-77715
C-88476
Ty MIL-M-268

| | | | |

SECTION F-F

SECTION FOR -3
MAT 040 ALUM ALLOY

SECTION FOR -4-5-6
-7-8-9 & -15
MAT .030 AL ALLOY

DETAIL E

SECTION D-D

SECTION C-C

CRIMP CHANNEL AS SHOWN

DETAIL 'A' SHOWING TYPICAL CORNER

SECTION B-B

DETAIL G-G

SECTION H

BELTFRAME # 366

SEE DETAIL GG

C'SK RIVETS IN TOP SIDE

DRILL 4 HOLES

DRILL 8 HOLES

DO NOT DRILL 32 - 4 HOLES ON FBY-2

C'SK RIVETS TOP SIDE.

STENCIL GROUND LETTERS ½ HIGH FBY-2 2 ON 4 FBY-3 ALL

GROUND

C'SK RIVET TOP SIDE

7½ FOR FBY-10-2

10½ FOR COMM # 243

19515-D8 RIVET IN TOP OF SHELF PREFORMED HEAD UP

* 10 DRILL-2 HOLES (193)
AN520-D11-8
AN960-D10
AN935-10
AN 345 D10
} 1 EA EQ'D FBY-2 2 ON 4 FBY-3 ALL

DETAIL 'A'

STENCIL GROUND LETTERS ½ HIGH

BULKHEAD

TOP

TOP

DETAIL 'E'

C'SK RIVET TOPSIDE

DASHED LINES

LOCATE LINES FROM MOUNTING HOLES AS SHOWN ON DETAIL OF SHELF

1ST JCJ BOX UNDER SIDE

FREQUENCY METER

SEC JCJ BOX UNDER SIDE

GH REC.

FIRST GO REC

SECOND GO REC

NOTE: DO NOT STENCIL ON FBY-2 (ALL)

PLAN VIEW OF SHELF
STENCIL WITH BLACK LETTERS ½ HIGH
LINES ⅛ WIDE
SCALE 3"-1'0"

NOTE:
-2 TO BE SPOTWELDED TO -3 : -4 -5 -6 -7 -8 -9 -15
-10 -11 & -12 EXCEPT IN ALL CORNERS OF ALL CHANNELS
WHERE THEY ARE RIVETED TO -2

ATTACH PARTS FOR RADIO EQUIP
1ST & 2ND RECEIVER AN520-D10-8; AC365-D1032 (46A EQ'D)
FREQUENCY INDICATOR AN520 D10-8; AC365-D1032 (46A EQ'D)
JUNCTION BOXES AN520-D10-8; AC365-D1032 (18 EA EQ'D
RECEIVER SWITCH BOXES AN515-8 & AC365-D632 (8 EA EQ'D)

NOTE:
OMIT ALL MOUNTING HOLES & STENCILING ON COMMERCIAL # 243

TO TOP OF HULL AT ℄

VIEW SHOWING ATTACHMENT FOR -9

DIAGONAL ON BULKHEAD #

22Q013-D5

TABLE (REF)

TOP OF TABLE

BELTFRAME #366

RADIO OPERATORS TABLE 28FOGO (REF)

STENCIL ½ BLACK LETTERS

1ST. REC. SW BOX

2CD. REC. SW BOX

MATERIAL

FINISH

FURNISHED BY GOVT

H 266

M

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
AD	PHOTO TRACED	2-28-43	HENRY
AH	ADDED DIM. FOR E & SEC E-F FOR -45 ONLY. NO W.T. CHG.	2-28-43	
AJ	ON FACE OF DWG. REPLACED NOTE "ALL ANGLES ---(-6,8,9,10,11,12,13,24,34,35,36,37) ARE .071 x 7/8 x 7/8 x .040 AL AL. BUILD ANGLES ALCOA DIE "WITHOUT WIRE MATERIAL NOS. (-5 THRU -13, -24, -25, -34, -35, -36 THRU -45 & 55 THRU -58 INCL.) (61) 5-ST, OR (W) 61559, AL ALLOY EXTR. SPEC. QQ-A-354-T.F. AT BASE OF DWG. REPLACED "SPEC. 4.640 COND T." WITH "SPEC. QQ-A-354-T."	3-10-43	HOOK
	WT INCREASE 0 2.6 OZ.	9-10-43	HOOK

DIM.	-0	-50
DASH NO.	-8L	-39L
	-9R	-35R
L	20 1/2	20 5/8

DIM.	-0	-50	-100
A	9 7/8	11 1/2	11 3/4

DIM.	-0	-50
B	1 1/16	1 3/8

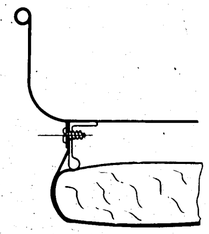
MATERIAL FOR -6,-8,-9,-10,-11,-12,-13,-23,-24,-34,-35,-36,-39 (-40,-41,-42,-43,-44,-53,-54,-55,-56 MAY BE)
(A) Y-5 (2S) AL
(B) K1859, AL ALLOY EXTR., SPEC QQ-A-354-T.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-23 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE
GP	GREEN ENAMEL

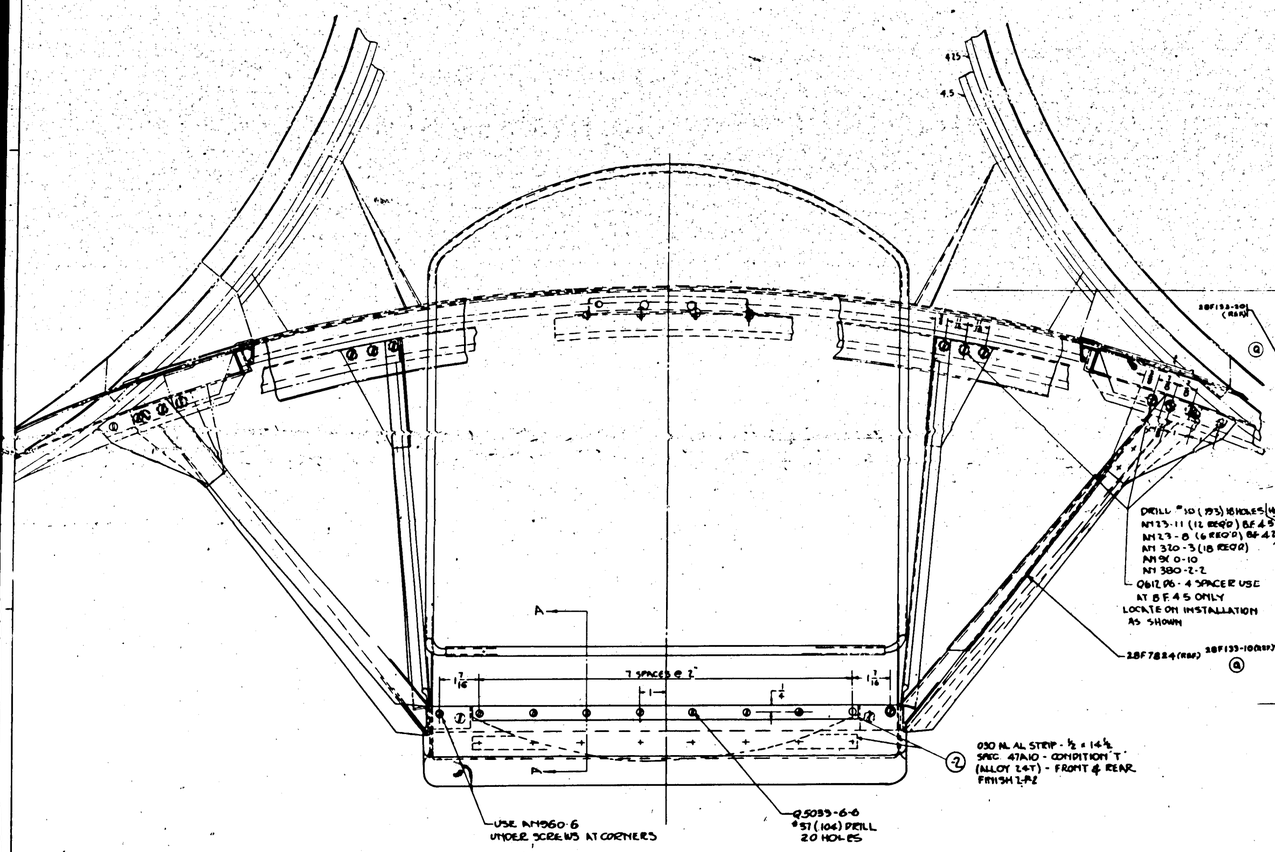
| | | |

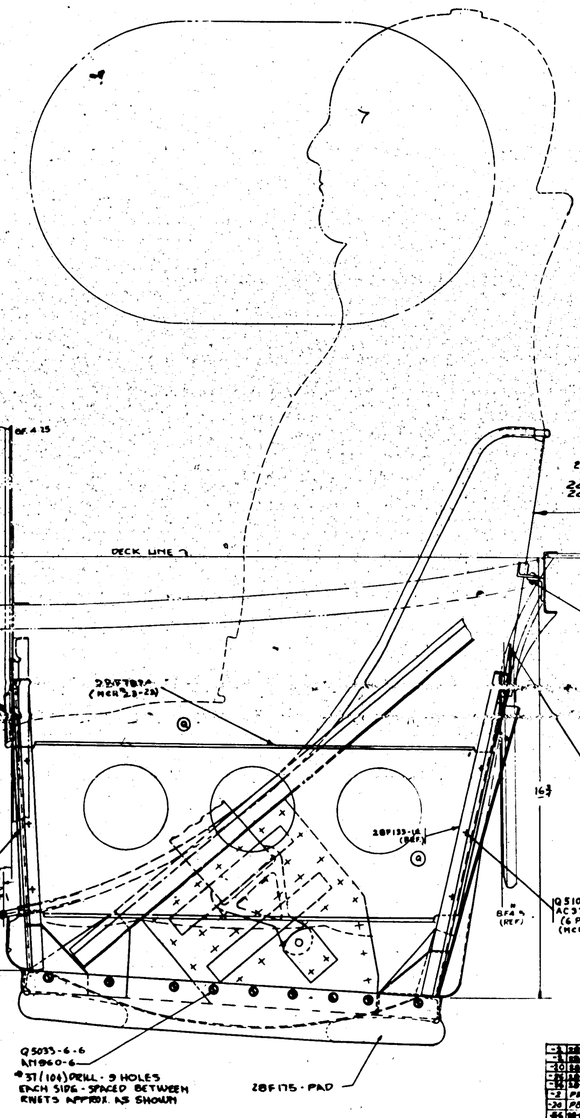
LET	ALTERATION	DATE	BY
G	TRACED UP TO DATE	6-3-37	AVIS
H	REVISED PER MCR #26 A.N.	7-29-37	KLW
I	REVISED PER MCR	8-6-37	KLW
K	ADDED ASSY NOS. 20-30		
L	ADDED PER SHOP ERRORS	9-28-37	KLW
	PER MCR FOR -3 SEATS	9-28-37	KLW
M	ADDED 28F133-30 ON -20 ASSY		
	28F13-60 ON -30 ASSY	11-6-37	KLW
N	INTERCHG DETAILS ON PER		
	-24, 70, WAS 08, 10	12-22-37	KLW
O	-20 ASSY REPLACES -30 ASSY		
	28F133-60 = 28F133-60	1-14-38	Bell
P	CREATED -2 ASSY. IDENTICAL TO -20 ASSY EXCEPT REPLACES 60 REQ. AGES 28F133-60 WT. CHG. +3.78	2-19-42	Barnes
Q	ADDED NOTE "TOP — AIRPLANE" Q5106D10-8(6), AC378D1032 (6), 2 28F7824 WT. CHG. 10.74 WAS 9.18	6-17-43	CARTER

M6818
MCR 1265
E.O. 5-32738
MCR 2823



SECTION A-A
SCALE 12"-1'-0"





NOTE:
TOP EDGE OF 28F7824 TO BE INSTALLED EVEN WITH GUSSETS 28F133-26 & -22 ATTACHING SUPPORTING ANGLES 28F133-40 & -12 AND ON PORT SIDE OF AIRPLANE

	AN960-6	WASHER	28						
	AN515-8-8	SCREW	4						
	AC 365-832	NUT	4						
-10	AN960-10	WASHER	28	28	28				
-8	AN960-8	WASHER	22	22	22				
-18	AN380-2-2	RIVET	18	18	18				
-2	AN310-3	NUT	18	18	18				
-24	AN515-11	SCREW	12	12	12				
-64	AN933A	WASHER	6	6	6				
-4.5	28F133-60	ASSY	1	1					
-3.0	28F133-30	ASSY	1		1				
-50	28F133-50	ASSY	1	1					
-20	28F133-20	ASSY	1		1				
-30	28F133-30	ASSY	1		1				
-4	28F133-4	ASSY	1	1	1				
-1	28F133-1	ASSY	1	1	1				
-2	28F133-2	ASSY	1	1	1				
-3	28F133-3	ASSY	1	1	1				
-5	28F133-5	ASSY	1	1	1				
-6	28F133-6	ASSY	1	1	1				
-7	28F133-7	ASSY	1	1	1				
-8	28F133-8	ASSY	1	1	1				
-9	28F133-9	ASSY	1	1	1				
-10	28F133-10	ASSY	1	1	1				
-11	28F133-11	ASSY	1	1	1				
-12	28F133-12	ASSY	1	1	1				
-13	28F133-13	ASSY	1	1	1				
-14	28F133-14	ASSY	1	1	1				
-15	28F133-15	ASSY	1	1	1				
-16	28F133-16	ASSY	1	1	1				
-17	28F133-17	ASSY	1	1	1				
-18	28F133-18	ASSY	1	1	1				
-19	28F133-19	ASSY	1	1	1				
-20	28F133-20	ASSY	1	1	1				
-21	28F133-21	ASSY	1	1	1				
-22	28F133-22	ASSY	1	1	1				
-23	28F133-23	ASSY	1	1	1				
-24	28F133-24	ASSY	1	1	1				
-25	28F133-25	ASSY	1	1	1				
-26	28F133-26	ASSY	1	1	1				
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-32	28F133-32	ASSY	1	1	1				
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-41	28F133-41	ASSY	1	1	1				
-42	28F133-42	ASSY	1	1	1				
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-99	28F133-99	ASSY	1	1	1				
-100	28F133-100	ASSY	1	1	1				

MCR 2335 (ON) TO MCR 233

(M) PBY-2 SNMS 0477 & ON
PBY-2 SNMS 0494-0496 MCR

REPLACES		DRAWN	6-3-37						
REPLACED BY		APPROVED	DATE						
USED ON ENGINE SERIES #		SHT. NO.	SHT. QTY.						
ATTACHED TO DRAWING		SCALE 6" = 1'-0"							
NO.		O.H.	MODEL	NEXT ASSY.	PROD.	PARTS			
NAVY NOTED		REQUIREMENTS PER AIRPLANE				MAT.	PARTS LIST PER ASSY.		
MATERIAL		SPEC.	HEAT TREAT		FINISH		6	5	4
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.		NOTED	NONE		NOTED		FINISH	CHECK	ENG
		NAME SEAT INSTALLATION, FURNISHINGS-MECHANICS					DWG. NO. J 28F134		

H 268

R 28F134

LET	ALTERATION	DATE	BY
AQ	IN LOFW-2 FOR -7 NOTE WAS 2-1/4 & 1-1/4 & 1 LONG AL ALLOY EXT ASA401, 3PEC 4AM CNFT		
AR	DIM. 81 W24 E5 1/8 NO WT CHG		

LET	ALTERATION	DATE	BY
K	ON RAIL 6 E DIM WAS 7 1/8	E.O. A18927	K
K	DIMENSION 14 WAS 15 1/8	E.O. A13973	K
	DIMENSION 7 3/8 WAS 12		
	ADDED 2.6 VIEW R-R		
	DIMENSION 2.6 WAS 2.4	EDC 53257	
K	CHGD POSITION OF -14	EO 23978	
	-14 & -15 NO WT CHG		
AA	CHANGED DIMS 11 WAS 10 3/8 DIM		
	11 WAS 10 3/8 DIM	EQA38358	
	2 1/16 WAS 1 15/16 WT CHG NEC		
AB	IN VIEW E-E -14 CHG TO READ		
	(-101 TO 201) NOTE (-203 OPEN	EQA31268	
	TO 100) NOTE (-203 CLOSED		
AC	CREATED -600 ASSY	EQA 50147	
	W.T. CHG NEC		
AD	VARIOUS DIMS WAS VARIOUS	EQA 42366 A	
	WT. CHG NEG. WT CHG		
AE	ADDED DIM 2.6 & EQUIV TO -600 ASSY ONLY DIM 2.2		
	-550 ASSY ONLY NOW WT CHG	EQA 42138 A	
AF	REVISED TAB ON -3 DIM 2 1/16		
	DIM 2.2 A DIM 2.6 NEW WT CHG		

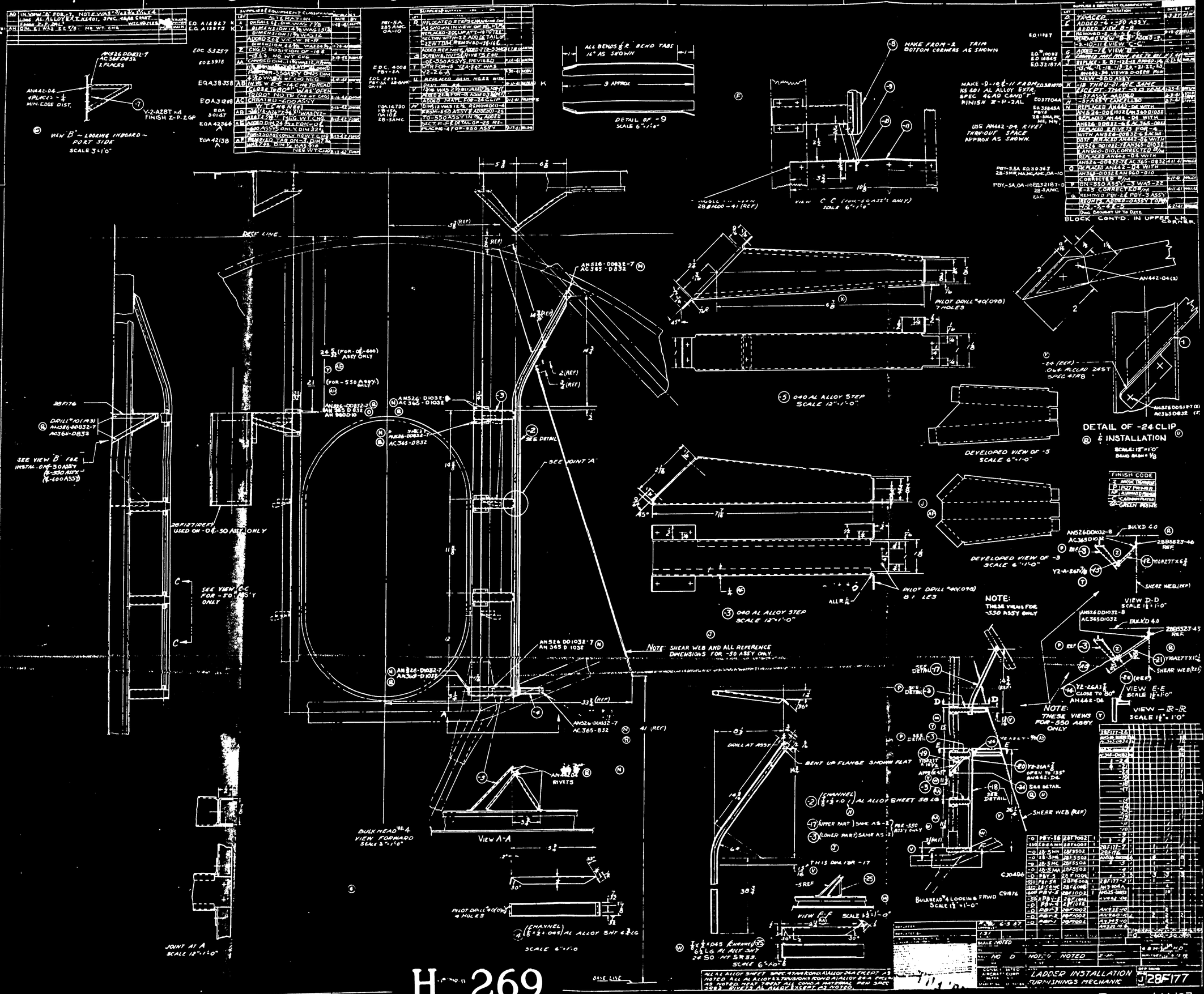
LET	SUPPLIES & EQUIPMENT CLASSIFICATION	DATE	BY
AL	RELOCATED 8 STEPS CANCELING DIM AS SHOWN IN VIEW OF E-E		
	REPLACED -501 W/ ACT-48 TOTEE SECTION WITH 2.8 ADD DETAIL OF 2 W TDIM, W RMVD REF -19 & 16		
AM	ADDED REF NOTE ADDED 7/16-20 NF SCREWS, NUTS & RIVETS EQU		
AN	OF -550 ASSYS, REVISED	5/16-41	MCW
AP	WAS FOR -8 Y2A-2 WAS	5/31-41	MCW
	Y2-2 A		
AQ	REPLACED DASH NUMB WITH PART NO. AN	5/31-41	MCW
AR	1/16 WAS 2 1/8 REF ADDED 2.6 TDIM -6 ADDED 7 (REF)	6/11-41	MCW
	ADDED NAME FOR 24 CLIP	7/11-41	MCW
AS	DIM 12 WAS 13 & ADDED -4 FROM -550 ASSY & ADDED -25		
	TO -550 ASSY IN 24 ADDED		
	SECT. E-E & DETAIL OF -25 RE-PLACING -4 FOR -550 ASSY	9/24-41	MCW

LET	SUPPLIES & EQUIPMENT CLASSIFICATION	DATE	BY
	TRACED	4/3-41	7/12
E	ADDED -6 -20 ASSY		
F	ADDED -9 & -11		
G	ADDED -3 & -5 VIEW B-B	8-19	COLLISON
H	REMOVED VIEW -3 ADDED -5		
	-3 -10-11 & VIEW C-C		
I	ADDED -3 & VIEW B-B		
J	CHANGED ANGLE CORE TO 81 & 8 1/2		MCW
K	FIPLACE -2 BY -14 CH ADDED -14	11-24	MCW
	-14 & -15 WAS -2-21 & -2-22		
	ANGLE 24 WAS 2.4 -0.125 FOR		
	NEW -550 ASSY		
K	-18 THRU -21 ARE SAME		
L	DELETE THESE -14 & 15 MAY 6	5-27	MCW
M	-3 ASSY ADDED	2-24	
M	-3 ASSY CANCELED	2-24	
N	REPLACED AN 442-04 WITH AN 526 D D 1032-7 & AC 365 D 1032		
	REPLACED AN 442-04 WITH AN 526 D D 1032-8 & AC 365 D 1032		
	REPLACED AN 442-04 WITH AN 526 D D 1032-7 & AC 365 D 1032		
	REPLACED AN 442-04 WITH AN 526 D D 1032-7 & AC 365 D 1032		
	WITH AN 526-D D 1032-6 & AC 365		
	DELETE BRACKET AN 442-04 WITH AN 526 D D 1032-7 & AN 365 D 1032		
	RAN 960-D10 CORRECTED 9/64		
	REPLACED AN 442-04 WITH AN 526 D D 1032-7 & AC 365 D 1032	11-41	MALLE
O	REPLACED AN 442-04 WITH AN 526 D D 1032 & AN 960-D10		
	CORRECTED 9/64	11-41	MALLE
P	ON -550 ASSY -3 WAS -22		
	K-25 CORRECTED 9/64	11-41	MALLE
Q	REMOVED PBY-2 & PBY-3 ASSY		
	NEGATIVE SHEET ASSY TOP		
	-22 & -23	2-1-42	
	DWG. BROUGHT UP TO DATE		

BLOCK CONTD. IN UPPER L.H. CORNER.

SUPPLIES & EQUIPMENT CLASSIFICATION			
		DATE	BY
	PBY-5A 28Z1100C 0A-10		
	EDC 5208 PBY-5A		
	EDC 2233 PBY-5A 28-5AMC 0A-10		
	FDA 16700 PBY-5A 0A-10Z		
	28-5AMC		

SUPPLIES & EQUIPMENT CLASSIFICATION			
		DATE	BY
	EO 11198T		
	EO 10083 EO 18842 EO 32187A		
	EO 37170A4		
	EO 35845A PBY-5A 28-5MA, MC, MB,		
	PBY-5A, 0A-10 EO 32187-D 28-5AMC Etc.		



H 269

R 28F177

SUPPLIES & EQUIPMENT CLASSIFICATION			
LAY	ALTERATION	DATE	BY
T	TRACED FOR TOOLING	6-15-45	KM
U	ADDED QEGR-D4 -12 & Q4465 DA-12		
V	11/16 DIM WAS 3/16	12-26-45	KM
W	INSERT -30 ALLY FOR 2 PST -19	6-22-46	TMW
P	RIVETS WERE ADDED RIVET SYMBOLS	11-6-46	LITKE
	NOTE REMOVED 34 & 35 & ADDED 36		
	SEE "S" AS REMOVED & -28 ADDED		
Q	"M" NOTE ADDED TO RIVET SYMBOL		
R	CUT ACCM ADDED -15 & 16 DIM		
S	41 TO HEAD 12 & WAS 11 &		
T	NOTE ADDED ON TH & OF DIM		
U	RIVETS ADDING ANGLE TO BE Q4309-D4		
V	3 3/32 " 1/4 WAS 3 7/16		
W	14-21 & 3 DOORS - RIVETS IN SPOT WELD SEAMS TO BE ADDED WERE 44 & 26"		
X	3/16 DIM ADDED LOCATING -10		
Y	PRINTS -76 REC'D STAMPED		
Z	1N1432 - D8 RIVET ADDED		
AA	NOTE ADDED FOR MINT WAS SPOTWELD		
BB	NOTE ADDED TO -44	11-6-46	LITKE
CC	ON FILE FOR -21 REMARKED "SEE [illegible]		
	[illegible]		
	[illegible]		

PBY-1 BU OF AERO CHANGE No 152

A-5

E.O. 10056

E.O. 8538 SUPERSEDING

E.O. 5328 SUPERSEDING

ADC 702-3

E.O. 4314-940

MCR No 4611

28F236 GUSSET

AN442-D6 RIVET
6AU3-D6-12B SPACERS
3 EA. REQ.

1⅜ O.D. X .120 AL. ALLOY TUBE SPEC. 46T21

28F237 GUSSET

AN442-D6 RIVET
6AU3-D6-20B SPACERS
3 EA. REQ.

28F235 GUSSET

28F238 GUSSET

AN442-D6 RIVET
6AU3-D6-20B SPACERS
3 EA. REQ.

DRILL #21(.159) NO HOLES CSK 78° FLUSH IN AN488-D5 RIVET

⅜ DIA HOLE

SECTION A-A

SECTION C-C
SHOWING RIVET SPACING

SECTION B-B

28F7572-2 FOR -40 ASSY.

28F5030-4 FOR -55 ASSY.

28F5030-56 FOR -56 ASSY

28F4077-10 XL
28F4077-10 R

.051 AL. ALLOY CONDITION "A"

DRILL ⅜ DIA 3 OVER ⌀ AS NOTED ABOVE
AN24-36 BOLT
AN960-616 WASHER
AN310-6 NUT
AN380-2B2-2

ACCESS DOOR 6 SEE DETAIL AN380-D10

.051 AL. ALLOY CONDITION "A"

ACCESS DOOR 9 AN380-D10

.051 AL. ALLOY CONDITION "A"

BELTFRAME #333

BELTFRAME #366

1 O.D. X .058 AL. ALLOY TUBE 75ST SPEC. 46T21 COND. T

1 O.D. X .065 AL. ALLOY TUBE 75ST SPEC. 46T21 COND. T

AN442-D6 RIVET

AN442-D6 RIVET

AN442-D6 RIVET

AN442-D6 RIVET

ACCESS DOOR FOR MAINTENANCE

MCR 4611

TO FREEZE

ANISM COAT

WT. -40 ASSY = 16.86

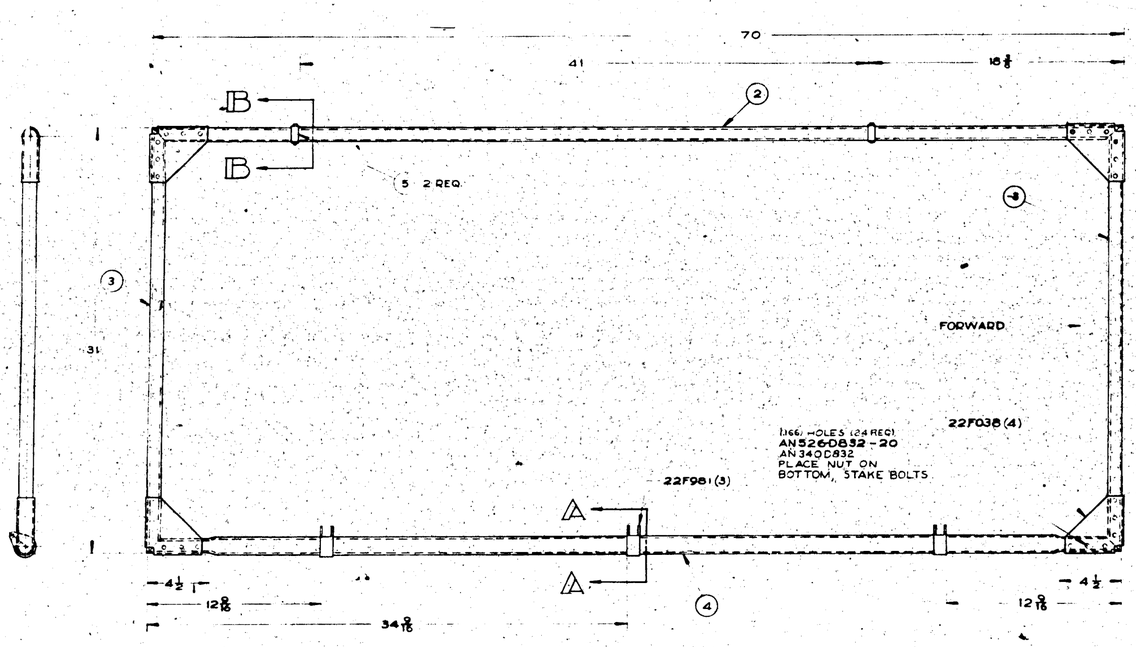
FINISH
28F833 - E TO -16 INCLUSIVE 2 COATS
ASSEM. 16.P EXCEPT FAIRING

H 271

COPY NO. 2

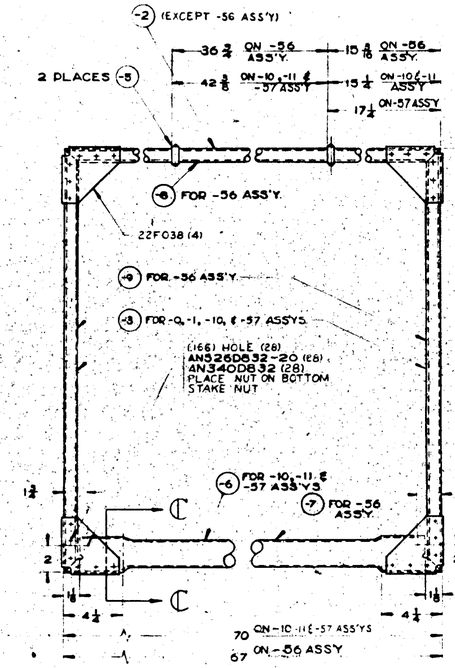
LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
				R	TRACED NO WT CHG	9-21-59	

OUTBOARD

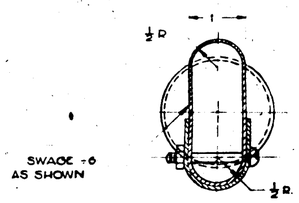


SWAGE -2 FROM I.D. TO O.D. AS SHOWN BOTH ENDS

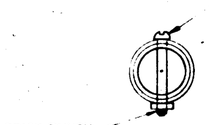
FOR -0 & -1 ASS'YS



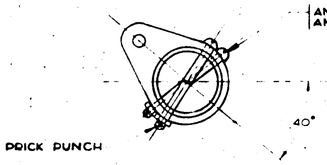
FOR -10, -11, -56 & -57 ASS'YS



SECTION C-C
SCALE: 12"=1'-0"



SECTION B-B
SCALE: 12"=1'-0"

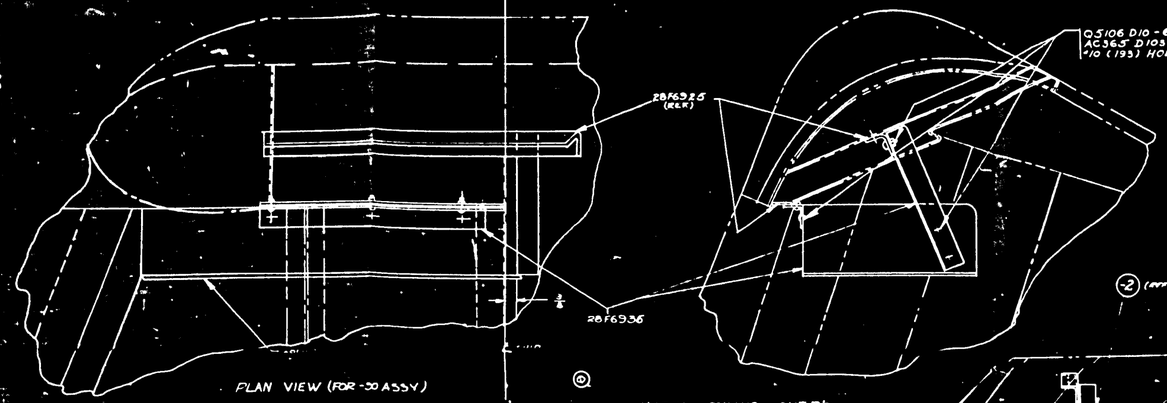


SECTION A-A
TYPICAL
FOR -0 & -1 ASS'YS
SCALE: 12"=1'0"

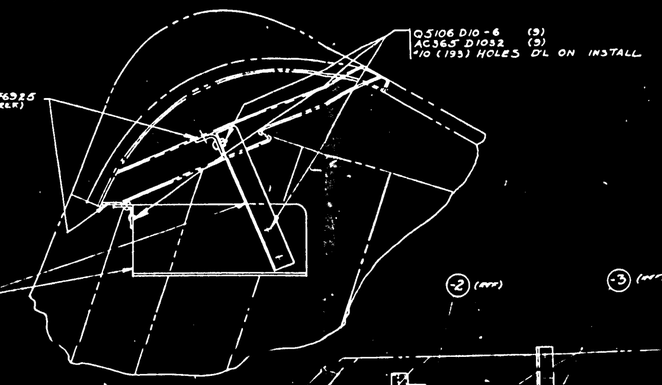
H 272

FINISH CODE
Z ANODIZE TREATMENT
P P-7 PRIMER
GP GREEN PRIME
C CADMIUM PLATE

| | | | |

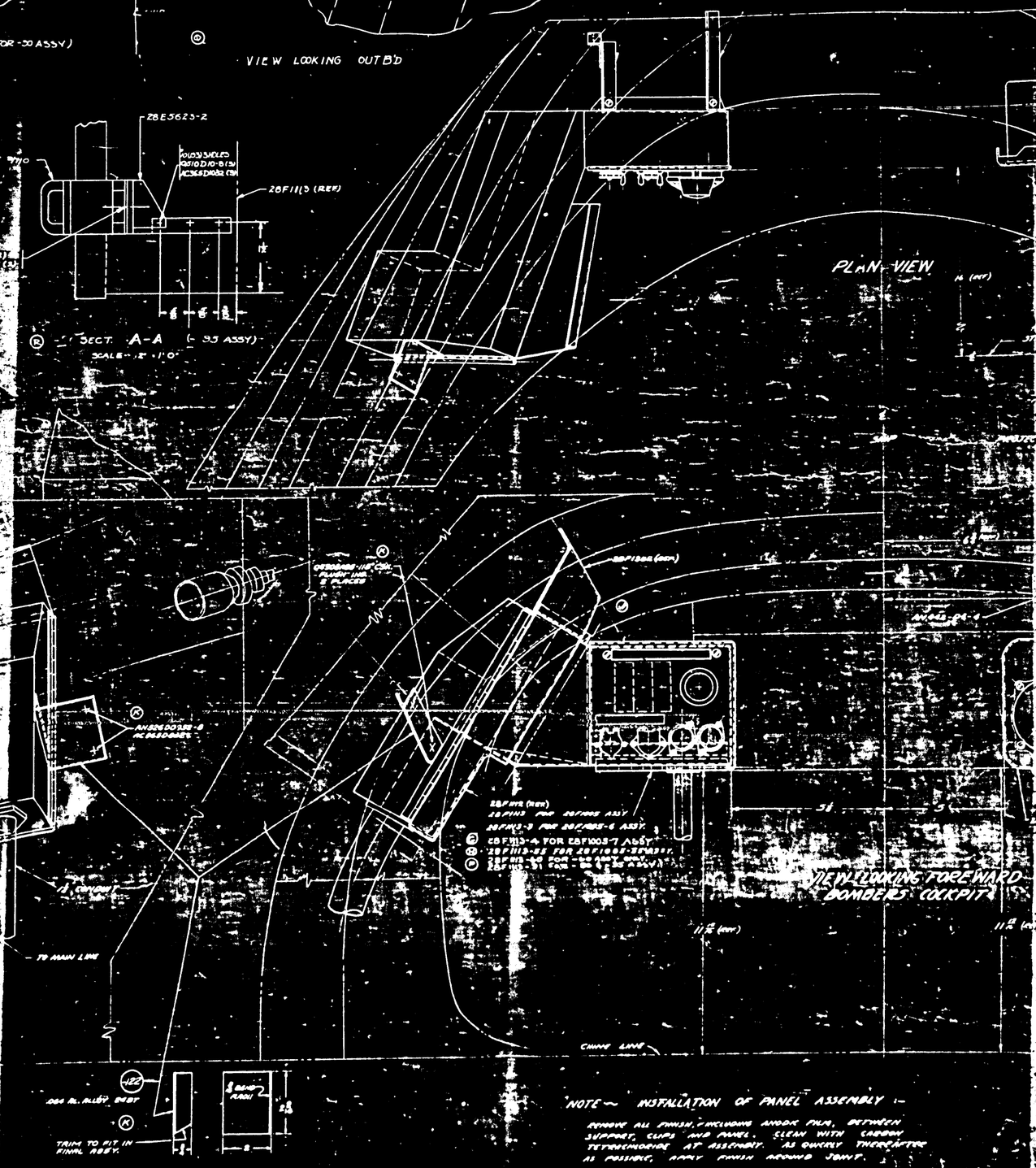


PLAN VIEW (FOR -33 ASSY.)



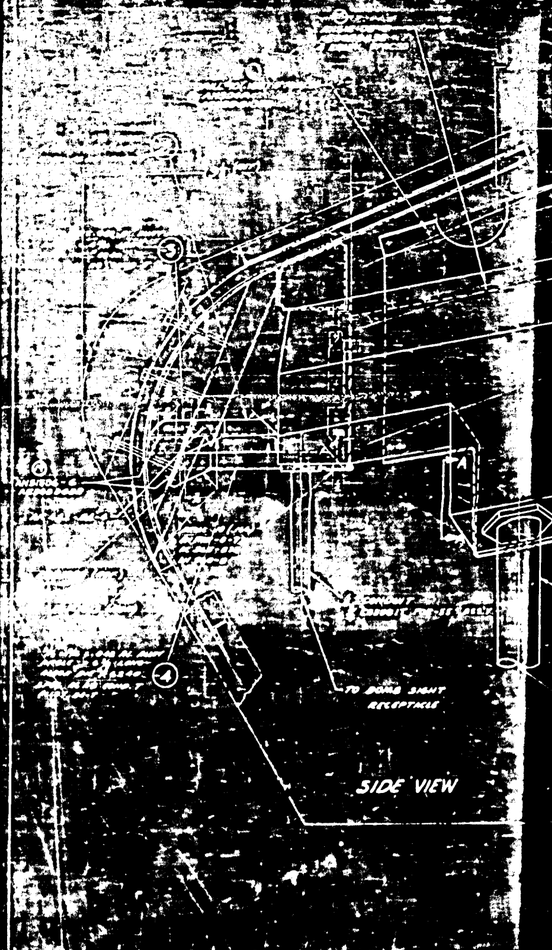
VIEW LOOKING OUT B'D

SECT. A-A (-33 ASSY)
SCALE - 2" = 1'-0"



PLAN VIEW

VIEW LOOKING FOREWARD
BOMBERS COCKPIT



SIDE VIEW

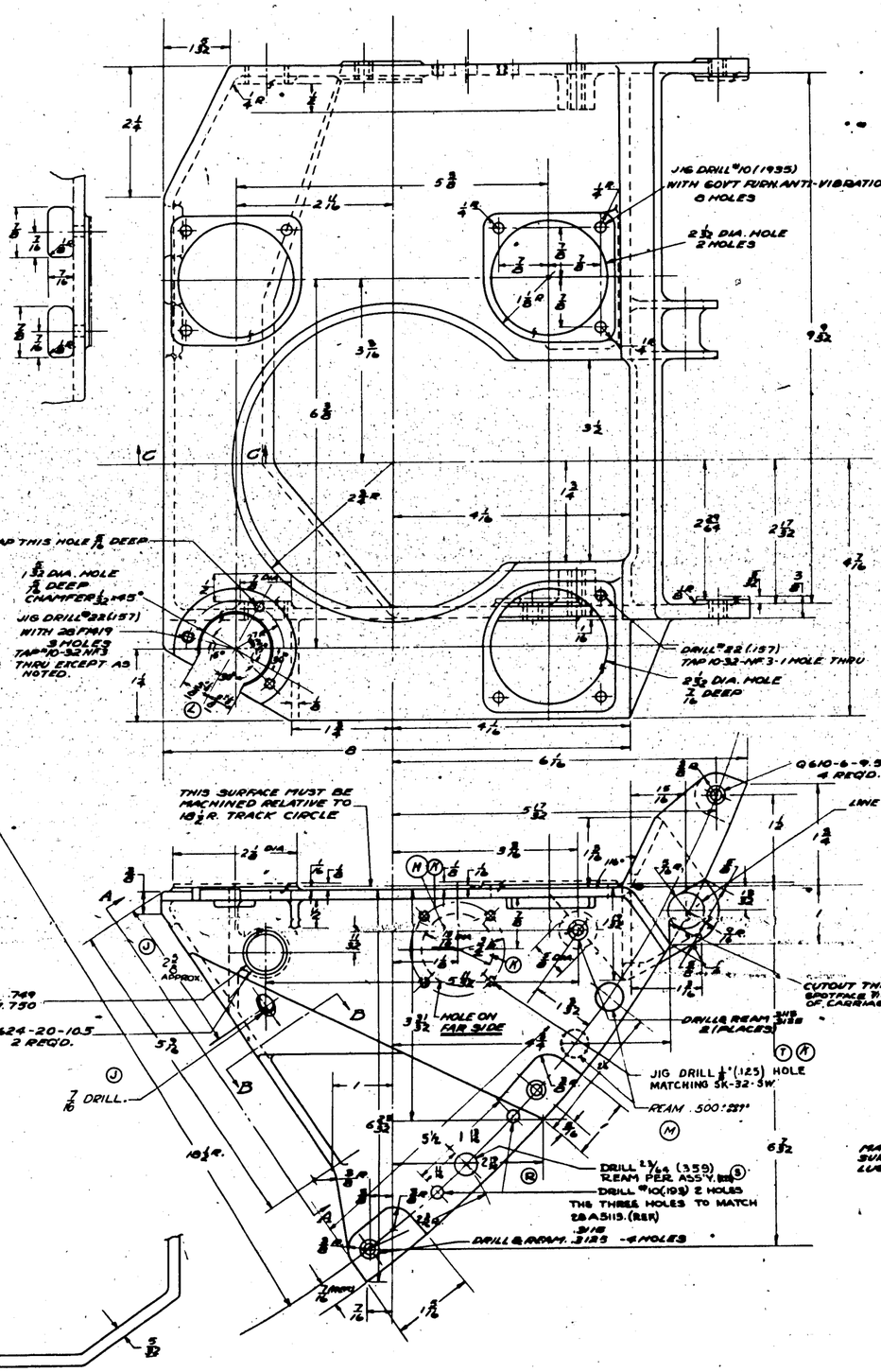
NOTE — INSTALLATION OF PANEL ASSEMBLY —
REMOVE ALL FINISH, INCLUDING ANODIC FILM, BETWEEN SUPPORT, CLIPS AND PANEL. CLEAN WITH CARBON TETRACHLORIDE AT ASSEMBLY. AS QUICKLY THEREAFTER AS POSSIBLE, APPLY FINISH AROUND JOINT.

NOTE —
ALL PARTS USED ON ALL ASSEMBLIES EXCEPT AS NOTED

H 273

INCORPORATES
PBY-3 BU AERO CHG. #107
PBY-4 BU AERO CHG. #66
PBY-5 BU AERO CHG. #8

LET	ALTERATION	DATE	BY
G	TRACED UP TO DATE	6-7-27	M.
H	SIDE VIEW: CHANGED 1 HOLE DIA. FOR #8 AN HEXAGON HEAD BOLT FROM 13/32 TO 11/32	10-5-37	[illegible]
J	ADDED 1/16 DRILLED HOLE	1/17/38	[illegible]
K	WAS SAE 1345 "B" STEEL TRIP PINS E.O.#205854 "F-46; 15/16 DIA. X 4 1/2 LG. WAS SAE 1345 "F" PINS E.O.#29349	1-9-38	[illegible]
L	"F" PINS CLEANED; 4th DIM. FROM 3 1/8 TO 3 1/4	1-9-38	[illegible]
M	ADDED 2 HOLES FOR AN R.H. LOCK	12-6-38	[illegible]
N	WAS "LINE REAM .625 ± .002 FOR .625 DIA. REAR SAE 1345 "B" STEEL TRIP PIN" E.O.C. BLANCY NO-N	12-21-38	[illegible]
	LINE REAM FOR ROCKING FIT WITH .625 DIA. "F" PIN."		
P	CHG'D MAT. OF -2 FROM SPEC. 46A1 CL 4 -H.T. 69,000 #/S.I. (WAR. SAGA) TO SPEC: AN-QQ-A-354 -H.T. 90,000 #/S.I. (WT. CHG. USC) E.O.#A10990	3-15-42	[illegible]
Q	CHG'D DIMS. 13/16 ± .218 TO .718 +.218 -.218 & 3/32 TO 1/16 (WT. CHG. USC) E.O.#A21070	3-19-42	[illegible]
R	ADDED (2) HOLES, (2) NOTES: "DRILL "V" (.377) & "DRILL #10 ... --- 28A5115" & DIMS. 2 11/16, 1/16 & 1 7/16. (WT. CHG. USC) E.O.A56901	3-19-42	[illegible]
S	DRILL 11/64 (.359) REAM PER ASS'Y. (.375) WAS "DRILL "V" (.377) WT. CHG. NEG	8-27-43	[illegible]
T	NOTE: "JIG DRILL ... 5K-32-SW" WAS "JIG DRILL & TAP ... 5K-32" NO WT. CHG	4-6-43	[illegible]



NOTES:—
ALL FILLET RADII UNLESS OTHERWISE NOTED TO BE 1/8. CORNER RADII NOT NOTED TO BE 1/16.
BUSHINGS ARE NOT TO BE PRESSED IN PLACE UNTIL CASTING IS "FINISHED".
ALL FLANGES UNLESS OTHERWISE NOTED TO BE 5/32.

PBY-5A	28F1840	1						
PBY-5	28F1800							
PBY-4	28F1800							
PBY-3	28F1800	0439-20-62.5	2	2	2	2	2	2
PBY-2	28F1800	0439-6-26	2	2	2	2	2	2
PBY-1	28F1800	0439-6-9.5	4	4	4	4	4	4
U.S.N.	28F1800	-2	1	1	1	1	1	1
O.N.	MODEL	NEXT ASSY.	REQ.	PARTS				

REQUIREMENTS PER AIRPLANE | MAT. | PAT'S LIST PER ASS'Y.

NAVY NOTED	NOTED	NOTED	NOTED
MATERIAL	SPEC.	HEAT TREAT	FINISH

REPLACES 28F1111 OF 2-25-36 | 6-7-27 DATE | 8.39 WT. EA. | WT. SET | SCALE 12" = 1'-0"

REPLACED BY | LIMIT ON DIMENSIONS UNLESS OTHERWISE NOTED ± .005 FOR DIMS. UP TO 6" INCL. ± .010 FOR DIMS. OVER 6" TO 12" INCL. ± .015 FOR DIMS. OVER 12" TO 24" INCL. ± .020 FOR DIMS. OVER 24" TO 48" INCL. ± .030 FOR DIMS. OVER 48" TO 72" INCL. ± .040 FOR DIMS. OVER 72" TO 96" INCL. ± .050 FOR DIMS. OVER 96" TO 120" INCL. ± .060 FOR DIMS. OVER 120" TO 144" INCL.

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME: CARRIAGE MARK II BOMB SIGHT

COPY NO. | SHT. | SIZE J | 28F1111

H 274

LET	SUPPLIES & EQUIPMENT CLASSIFICATION / ALTERATION	DATE	BY
L	TORED TO DATE	8-4-43	
M	ON -10 ASSY ADDED EB6[illegible] (1), EB8 (110 8-40), AN210-6-6	10-19-43	
N	5/16 WAS 3/8 WHL DIM.	11-5-43	
P	ADDED TO PARK 11/64 DIA. 1 HOLE @ 31/120 4 HOLES TO MATCH MAF 1077-12. ADDED -12 TO EEML ACE-5 FOR SHIPS PBY-5 CONT. 9187B BU 4485 BUILT 607 (GW, & PBY-5A CONT 8847K SHIPS 53 & ON, INPACE 1 & H. WT. ENG. NEG.	4-16-45	
Q	ADDED -31. NO WT. CHG.	4-5-45	
R	CREATED -38 AND CHANGE AS -31 ASSY EXCEPT IN 1-11 HOLES CRMEREADER #31 (120) 2 HOLES CHG. DIM. OF RADS. MTG. HOLE TO 11/16. REMOVED C.918764-1 -90. P.RIM. -5 ASSY. WT. CHG. NEG.	4-24-45	
S	ON FACE AND -7 REMOVED 3/4 X 3/4 X 1.000 OF OF ANGLE 20 & 18 ALCOA 14 S-T4 EXTD. ALSO SHOT 532-T FOR -8. REMOVED 3/4 X 3/4 X .688 OF ANGLE 18 & 16 ALCOA 14 S-T4 EXTD. ADDED MATL NOTES -8 & -38 WITCHS AND	11-30-45	

CO. 3525

E.O. 21694
E.O. A34745

E.O. A55704
MCR 173 (2)

FLAT PATTERN-4

FLAT PATTERN-5
SCALE 3"=10" APP.

FLAT PATTERN-2
SCALE 3"=10" APP.

PART-3

SECT AA

TYPICAL SECTION OF -2

BEND LINE

DRILL #28 (.140) 8 HOLES 6 HOLES FOR -38

*31 (.120) 4 HOLES TO MATCH NAF. 1077-12 (FOR -12)

A = 3/4 PBY-1
B = 3/4 "
A = 3/4 PBY-2
B = 3/4 " & 1-31 ASS'Y.
B = 1 1/16 -38 ASS'Y.

ON -10 ASSY ONLY

28E2066-7 BLOCK	(1)	
AN520-6-5	(2)	
DRILL #28 (.140) 4 HOLES		(M)
28E1105-4 BLOCK	(1)	
AN520-6-5	(2)	

(S) MATERIAL NOTES-
1-MAT'L. FOR -7 MAY BE-
(A) Y-2-A12T X 8 7/8, OR
(B) KG240 X 8 7/8, AL. AL. EXTR., SPEC. QQ-A-331-T.
2-MAT'L. FOR -8 MAY BE-
(A) Y-2-A12T X 5 13/16, OR
(B) KG240 X 5 13/16, AL. AL. EXTR., SPEC. QQ-A-331-T.

NOTES:
ALL PARTS USED ON ALL ASSY EXCEPT AS NOTED 28F1112-10 SAME AS 28F1112 EXCEPT FOR DRILLED HOLES FOR MKARY BOMB RACK SWITCHES.

FOR ALL FUTURE PARTS ON PBY-2 SEE DWG 28F3112

-38	PBY-5	28F3112	1	
-31	PBY-5A	28F3112	1	
-12	PBY-5	28F3112	1	
-8	29 SHT AMM		1	28E1105-4
-7	28-SHT AMM		1	28E1066-7
-6	28-SHT AMM		1	AN520-6-5
-5	28-SHT AMM		1	AN520-6
-4	28-SHT MC		1	AN520-6
-3	28-SHT MC		1	AN520-6
-2	28-SHT MC		1	AN520-6
-37	PBY-5A		1	28F1112-37
-12	PBY-5A		1	28F1112-12
-8	PBY-5A		1	28F1112-8
-7	PBY-5A		1	28F1112-7
-5	PBY-5A	28F3112	1	28F1112-5
-12	PBY-5	28F3112	1	28F1112-12
-8	PBY-5	28F3112	1	28F1112-8
-7	PBY-5	28F3112	1	28F1112-7
-5	PBY-5	28F3112	1	28F1112-5
-6	PBY-3	28F3112		-6
-9	PBY-3	28F3112		-9
-7	PBY-3	28F3112		-7
-10	PBY-3	28F3112		-10
-9	PBY-3	28F3112		-9
-7	PBY-5	28F3112		-7

REPLACES	APPROVED	DATE			
REPLACED BY	CALC WT.	ACT WT.	NO.	STD PARTS	
LIGHT OR SHADOWED WELDS SYMBOLS SPECIFIED	SCALE 3"=10"		REQUIREMENTS PER AIRPLANE		MAT.
	AC		NOTED	NOTED	NOTED
	NAVY	NOTED			
	MATERIAL	SPEC.	HEAT TREAT	FINISH	

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME: 3 SWITCH PANEL - FURN - BOMBERS

SIZE J | DWG. 28F1112 | REV. 21

H 275

LET	ALTERATION	DATE	BY
J	ON FACE OF DWG -93 SUB ASSY		
	WAS -93 SUB ASSY - NOW -100 SUB ASSY		
K	ADDED VIEW OF INSIDE OF BOX		
	ADDED NOTE TO BUS BAR (2BE1133-12)		
	ADDED PARTS TO -93 SUB ASSY		
	ADDED PARTS TO -100 SUB ASSY		
	ADDED PARTS TO -101 SUB ASSY		
	ADDED NOTE 5		
	ADDED PARTS TO -101 SUB ASSY		
	93 SUB ASSY TO -92 SUB ASSY		
	NAF 1058-17(C) WAS NAF 1058-17		
	1-17(C) REV. LET. J		

LET	ALTERATION	DATE	BY
A	FDN-93 SUB ASSY ADDED		
	AN3115 TO 2BF1113-12		
	2BE1133-19(1), 2BE1133-18(1)		
	AN5168B-1/4 WAS CLAMP NO. 8		
	AN316 (B) WAS 2BE1133-20 (2)		
	ADD AN960-416L (1) WAS -10 (1)		
B	ADDED NOTE WITH ASTERISK (*)		
	PARTS FURNISHED FOR -92 SUB ASSY ADDED # FOR PART 1126-11 (REF. DWG. 1077-12)		
	NAF 1058-17(C) WAS NAF 1077-13(C)		
	1-17(C) REV. LET. B		
C	ADDED 2BE1133-21 (1)		
D	ELIMINATED AN3115-8B (1), AN5213-10B (1)		
	ADDED AN3115-8 (1), AN5213-10 (1)		
	AN960-416L (1) WAS AN960-10 (1)		
E	ADDED NAF 1103-6(1) WAS NAF 1077-13(C)		
	AN3115-6(1) WAS -8(1)		
	ADDED NOTE #3		
F	ADDED NAF 1103-4(1) WAS NAF 1077-13(C)		
	AN3115-4(1) WAS -6(1)		
	ADDED NOTE #3		
G	ADDED NOTE #3		
H	ADDED VIEW A-A, AL320-10-16(1), AC365-1032-0, AN960-10(1), AN935-10(1), Q7102AL10(2), AN345-1032(1) TO -91 -101		
	ASSEMBLIES		

AN3015 SWITCH (24 REQ'D)
AN515-08-5 (48)
AN340-08 (48)
AN935-8 (48)
AN960-AL8 (48)

2BE5045-F (2 REQ'D) NAMEPLATE Q4305-AD2

2BE5279-LF NAMEPLATE Q4305-AD2

Q6202-3 AN515-6-7

NAF1037-3. (2 REQ'D) GUARD

2BE1133-19 BUS BAR (1 REQ'D)

- PAINT TOP FACE OF "AUTO" GUARD WHITE

NNE018-133F NAMEPLATE

NNE018-139F NAMEPLATE

NNE018-60F NAMEPLATE

NNE018-115F NAMEPLATE

NNE018-116F NAMEPLATE

NNE018-30F NAMEPLATE

NNE018-137F NAMEPLATE

NNE018-70F NAMEPLATE

NNE018-31F NAMEPLATE Q4305-AD2

2BF3112-267 BOX COVER (92) SUB ASSY

NAF 1099-25-350 RHEOSTAT

2BF3112-266 BOX COVER (93) SUB ASSY

2BF1129-EF NAME PLATE Q4305-AD2

2BF1130-BF NAMEPLATE Q4305-AD2

2BF1130-9F NAMEPLATE Q4305-AD2

2BF1130-2F NAMEPLATE Q4305-AD2

2BF1130-3F NAME PLATE Q4305-AD2

2BF1130-4F NAME PLATE Q4305-AD2

2BF1130-5F NAME PLATE Q4305-AD2

2BF1130-6F NAME PLATE Q4305-AD2

2BF1130-7F NAME PLATE Q4305-AD2

AN3015 SWITCH (9)
AN515-08-5 (1)
AN340-08 (4)
AN935-8 (8)

NAF1056-16 LIGHT (SCREW'S FURN'D CAC 1935 #2

NAF1056-17 LIGHT (SCREW'S FURN'D CAC 1935 #2

Q6202-5 AN515-6-7

2BE5378 SEE NOTE #2 FOR -91 ASSY

2BE5278-7F NAMEPLATE Q4305-AD2

Q3511-6F (2 REQ) NAMEPLATE Q4305-AD2

2BF SHT 269 (BOR (FOR -91 ASSY) -100 SUB ASSY (NOT -101 ASSY)

Q8140-7-6 AN520-10-16 (1) AN960-AL10L (1) AN935-10 (1) AN345-10 (1) AC312D1032 (1) (FOR -101 ASSY ONLY)

AN3066-10 (2) AN3068-10 (1) (FOR -101 ASSY ONLY)

2BE5385 (FOR -101 ASSY ONLY)

2BE5279-9 NAMEPLATE Q4305-AD2

Q5106D10-12 (1) Q8A8-7-6 (1) AC312D1032 (1) (FOR -101 ASSY)

NAF1077-13(C) AN3150-8 (2) AN935-6 (2) AN960-6L (2)

NAF1077-12 RECEPTACLE AN315-8-(4) -990 (4) Q7102-AL-8 (4) PAINT CAP RED

2BF1132-D NAMEPLATE Q4305-AD2

32E1964-8F NAMEPLATE Q4305-AD2

NAF1077-12 RECEPTACLE AN 315-8-(4) AC365-990 (4) Q7102-AL-8 (4)

AN520-10-16 (1)
AC365-1032-0 (1)
AN960-10 (1)
AN935-10 (1)
Q7102AL10 (2)
AN345-1032 (1)

VIEW A-A

2BE1169-2 ATTACH TO COVER WITH SWITCH SCREWS

2BE1133-12 (1)
2BE1133-67 (1) AN515-8-6 AN960-8B AN935-8
2BE1133-20 (1)
2BE1133-21 (1) ON TOP OF 2BE1133-20 (REF)
2BE1133-12 BUS BAR
2BE1133-10 (1) AN515-8-6 AN960-8B AN935-8
2BE1133-19 (1)

BUS BAR INSTALLATION LOOKING AT INSIDE OF COVER. SCALE: 6"=1'-0"

AN781-3-5 (1)
2BF3112-45 (REF)

GROMMET INSTALLATION LOOKING AT INSIDE OF BOX SCALE 6"=1'-0"

NOTE:
"PARTS MARKED THUS (*) ARE GOVERNMENT FURNISHED.
2-SHELLAC, 2BE5378 TO INSIDE OF BOX (COVER WITH SHELLAC
3-IT IS PERMISSIBLE TO USE THE FOLLOWING ALTERNATES
AN 3115-6 TO REPLACE AN515-8-6
AN 960-8 TO REPLACE AN 960-8L

-100 SUB ASSY

-92 SUB ASSY

-91 SUB ASSY

-101 SUB ASSY

PART NO.	STOCK	MATERIAL	SPEC.

NAVY NONE

NAME SWITCH PANEL ASSEMBLY - FURNISHINGS - BOMBER'S

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SIZE J DWG. 2BF1113

SHEET 1 OF 4 SHEETS

H 276

END FILE

INCORPORATED BUREAU CHANGE NO. 38 (ALL SHIPS)

LET	ALTERATION	DATE	BY
L	TRACED UP TO DATE	11-3	11-5
M	[illegible]	2-20-51	[illegible]
N	ADDED DIMS 81.5 & 82 REMOVED	"	"
P	ON FACE, ROW -13, REPLACED 1 1/16" DIA X 7/8" LG 30° 82Z CRS X 7/8" LG W/ 1 EA REQ'D 1 1/16" DIA X 7/8" LG 30° 82Z CRS X 7/8" LG -14 REQUIRED 1 1/16" DIA X 7/8" LG 30° 82Z CRS X 7/8" LG -15 REQUIRED 1 1/16" DIA X 7/8" LG 30° 82Z CRS X 7/8" LG ADDED NOTE 3, REVISED NOTE 2 & 3, ADDED NOTE 4	6-11-51	FH CP

(P) 13 ANGLE

(P) 14 ANGLE

7 ANGLE

AN 515D6-6 SCREW
AC 365D 632 NUT

16 CHANNEL

2 ANGLE

3 OPPOSITE HAND

Q5728-10-70 STRAP WATERPROOF

CUT OUT TOP FLANGE OF -14 AT 4 CORNERS

STRAP IS A COMPLETE LOOP FASTENED AT ONE POINT ONLY

8 ANGLE

5 CORNER PLATE

6 OPPOSITE HAND

(P) 9 ANGLE

AN960-4 WASHER

BULKHEAD STA°3

BELTFRAME 2.6

BOTTOM STA°29

BOTTOM STA°3

REAR VIEW
LOOKING FORWARD
PORT SIDE ONLY

BASE LINE STA°29
STA°3

NEPLANE

(P) MATERIAL NOTES-
1- MAT'L. FOR -13 MAY BE-
(A) Y-2-A46T X 29, OR
(B) K78J X 29, AL AL EXTR., SPEC. QQ-A-354-T
2- MAT'L FOR -14 MAY BE-
(A) Y-2-A46T X 30 1/2, OR
(B) K78J X 30 1/2, AL AL EXTR, SPEC. QQ-A-354-T
3- MAT'L FOR -15 MAY BE-
(A) Y-2-A46T X 27 3/4, OR
(B) K78J X 27 3/4, AL AL EXTR, SPEC. QQ-A-354-T

5.- RIVETS AL. ALLOY AN442-D4.

(P)
3- ALL AL. ALLOY SHEET .081 SPEC. 47A10 (COND. T) ALLOY 24ST.
2- ALL RIVET HEADS INSIDE BOX TO BE DRIVEN FLUSH.
1.- ALL BEND RAD. 1/8.

		NC366-DC32	5
		NY416-P6-6	5
		AN960-4	4
		AN442-D4	31
		OUTBOARD-16	1
		-16	2
		-15	5
		-14	5
		-13	5
		-8	1
		-7	1
		-6	1
		-5	1
		-4	1
		-3	1
		-2	1
		-1	1
		INBOARD-16	1

PARTS NOT SHOWN
ON -15
PARTS

REPLACES		KCW 11-37	
REPLACED BY		S.S.I.	
LIST OF DIMENSIONS SHOWN ON THIS DRAWING	± 1/16	SCALE 6"-1'-0"	
AS			
PART NOTED		NOTED	NONE
MATERIAL		SPEC.	HEAT TREAT
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.			

1-F-28P

RACK ASSEM. FLARE STOWAGE

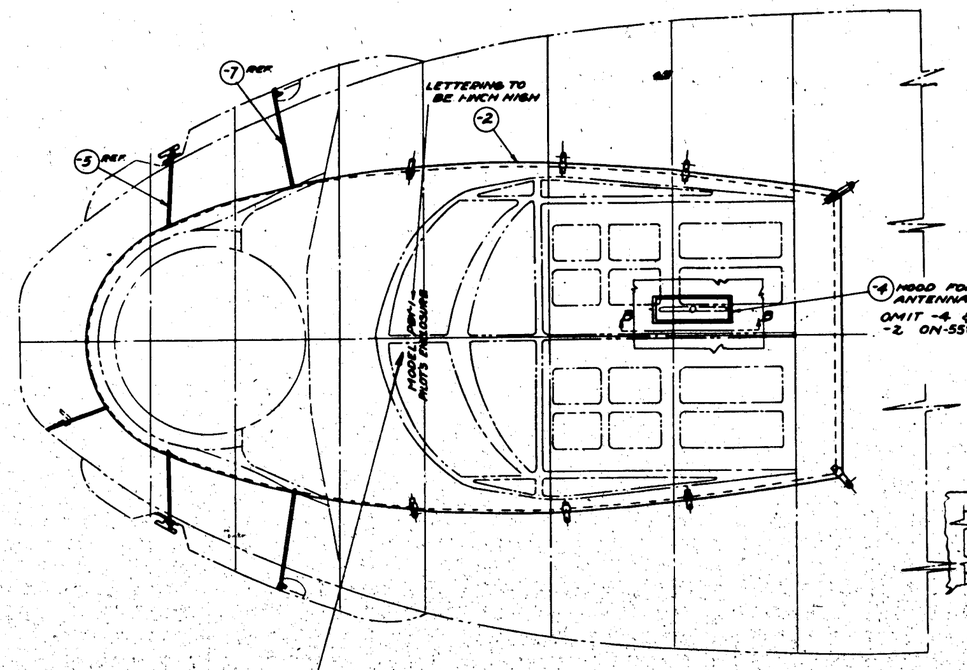
J28F1117

H 277

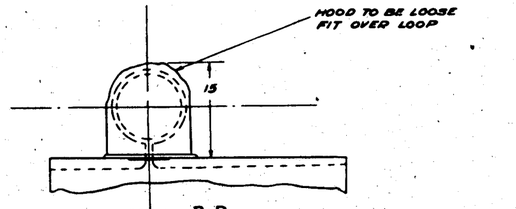
28F1117

LET	ALTERATION	DATE	BY
C	TRACER	6-27-41	
A	ANGLE OF [illegible]	11-20-41	
M	ADDED STENCILING [illegible]	11-20-41	
L	DELETE [illegible]	1-21-42	
	REPLACE BY SPEC AN-3 & STANDARD		
	A.N. STRIP (1 PLACE)		
A	DELETE SPEC AN-3 PAR (2)		
	REPLACE BY SPEC AN-3 & AN-3-3		
	A.N. STRIP (1 PLACE)	3-24-42	
P	ADDED PARTS LIST & PARTS	5-28-42	
Q	DELETED AN 935-8 FRONT		
	INSERT 1 AN 960-8		
	WASH. 1 AN 935-8 FRONT	6-1-42	
R	ADDED -44, -51, -60, -611	6-15-42	
S	-K CHG CANCELLED. ADD'L -60, -61	6-29-42	
	ADDED REQ'TS PER PLANE SHOT		
T	CANCELED -61 ADD'L NO WL CUT	9-1-42	
U	Deleted [illegible]	9-8-42	
V	ADD NOTE "COVER--- ONLY"	9-21-43	

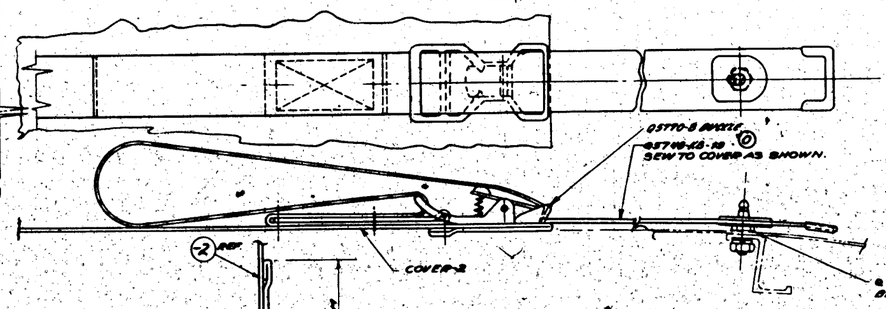
E.O. 27715
3946
E.O. 22289
E.O. 30586
E.O. 32802
E.O. A32
E.O. A87



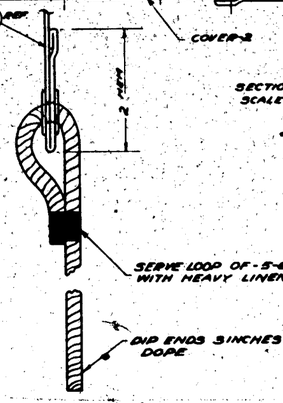
PLAN VIEW



SECTION B-B
SCALE 1"=1'-0"

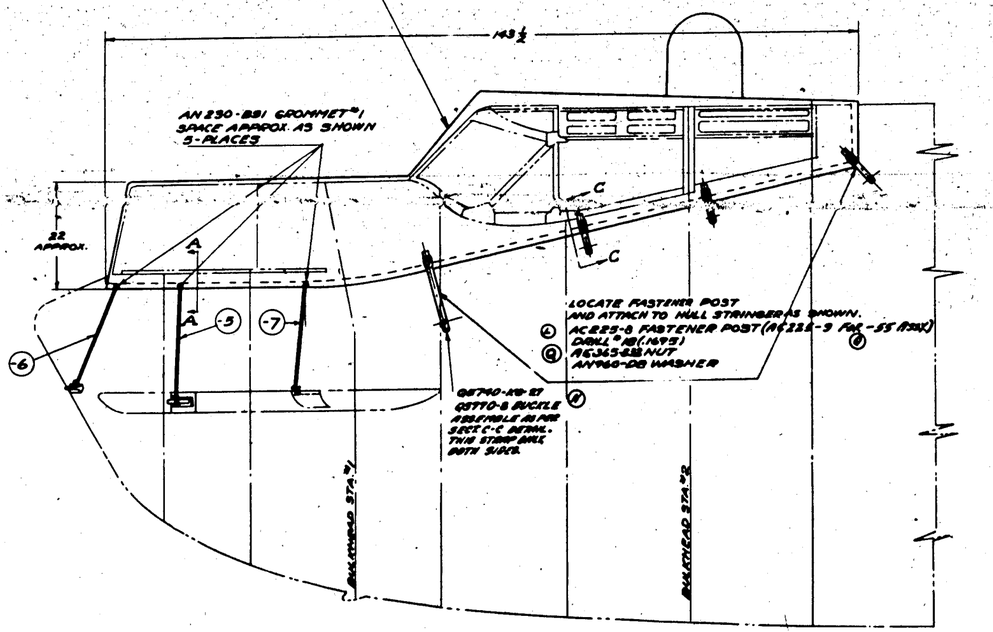


SECTION C-C
SCALE 12"=1'-0"



SECTION A-A

SEE NOTE: FOR OTHER A33'S STENCIL: "TYPE 28-5 MN" "COCKPIT HOES"



SIDE VIEW

DASH NUMBERS AND MATERIAL FROM WHICH THEY ARE MADE

SPEC. 49D4 WATERPROOF COTTON DUCK -2

SPEC. 49D4 WATERPROOF COTTON DUCK 20"x20" (APPROX.) -4

SPEC. 7-C-571 1/4 DIA. SASH CORD
-5 APPROX. LENGTH -44"
-6 APPROX. LENGTH -44"
-7 APPROX. LENGTH -72"

IDENTICAL TO -55 A35X EXCEPT FOR STENCILING OF THE MODEL NUMBER

NOTE:
THREAD STITCHING & SEAMS TO BE IN ACCORDANCE WITH SPEC. 49C8

COVER TO BE CAMOUFLAGED TO MATCH THE CAMOUFLAGE SCHEME OF THE AIRPLANE. TOP SIDE ONLY.

(STENCIL FOR -55)
PBY-5
PILOTS ENCLOSURE COVER
EBF 1064-55

(STENCIL FOR -58)
TYPE 28-5 MN
COCKPIT
28 F 1064-58

ALL STENCILING TO BE ON OUTSIDE OF COVER.

-7	PBY-5	28F 1064	2				
-7	28-5MN		2				
-7	1 MC		2				
-7	1 MC		2				
-7	28-5MA		2				
-6	PBY-5B		1				
-6	28-5MN		1				
-6	1 MC		1				
-6	1 MC		1				
-6	28-5MA		1				
-5	PBY-5B		6				
-5	28 FMC		6	AN 960-8B			
-5	1 MC		6	AN 935-8B			
-5	1 MC		6	AC 232-8			
-4	PBY-5MA		2				
-4	PBY-5B	28F 1064	1				
-4	28-5MC		1	AC 232-8			
-4	28-5MA		1				
-4	28-5MC		1				
-2	PBY-5B	28F 1064	1				
-2	PBY-5A	28F 1064	1	-7			
-2	PBY-5	28F 1064	1	-6			
	PBY-5	AF 7004		-5			
	PBY-5	28F 1064		-4			
	PBY-5	28F 1064					
	PBY-5	28F 1064					

REPLACES			5-3-37 DATE
REPLACED BY			
SCALE 1"=1'-0"			
MATERIAL	NOTED	NONE	NONE
	SPEC.	HEAT TREAT	FINISH

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME: COVER-FURNISH.-PILOTS ENCLOSURE

DWG NAME J 2061

H 278

INCORPORATES
FBY-1 BUREAU CHANGE NO. 25
FBY-2 " " " 55
FBY-3 " " " 33
FBY-4 " " " 5

LTR	ALTERATION	DATE	BY
E	CHANGED -6A(F-4) ARE USED ON FBY-2, -3 & -4 AIRCRAFT; -7A(F-5) ARE USED ON FBY-3 & -4 AIRCRAFT (PER C-1 PARAGRAPH)		
	CHANGED -7A(F-5) TO -7B(F-5) PER C-1 PARAGRAPH		
	28F1070-7A(F-5) ADDED PER C-1 PARAGRAPH	8-28-61	MARS
AA	IN THE REMARKS MATERIAL-6 ADDED		
AB	-80 ASSY WAS DWG. REQ.	8-6-62	MARS
	ADDED NOTE TO THE REMARKS		
	-82 (F-5 PARTICIPATE) WAS DWG. REQ.	8-15-62	MARS
AC	NEXT ASSY REQ. PER 28-0535		
	AN-960-10 WITH -10 ASSY REPLACED -80 WITH -10 ASSY	8-15-62	MARS
AD	CHANGED -78 & -7A ASSY BREAK		
	AN-960-10 WITH -10 ASSY REPLACED -80 WITH -10 ASSY		
	28F1024-5, -7 & -8, &		
AE	28F1070-78 & -7A OMITTED	8-14-62	MARS
AB	MOUNT REQ'D/AIRPLANE		
	BLOCK UP TO DATE. NO WT CHG	7-18-63	MARS
AF	ON PAGE ADDED NOTE "REPAIR"		
	3/4"ø E.O.A.67PM2	7-19-63	MARS
AG	ON PAGE 4 ADDED AT -4 & -5 ASSY. ALT. ARMREST "SEE AN-08-5" ADD "TO BE USED TO SHOW CG" BELOW "REF" ON 28-0535		

LIST	ALTERATION	DATE	BY
M	TRACED	11-19	
N	WAS & REQ.		
O	WAS & REQ.		
P	28F1085 ADDED (CO-ORDER BEFORE)		
Q	ADDED -5A(F-4) -7B(F-5) AN960-10L (REF -10 & -10L)		
	SHEET ADDED		
R	MADE SEE ASSEMBLY OF PILOTS		
S	SEAT ASSEMBLIES WAS TO BE		
T	AN3-4 WAS AN3-5 PER FBY-3		
U	AN3-4 WAS AN3-5		
V	ADDED DETAIL "B" DUPLICATE		
	ONE MADE, 28 DWG WITH		
	SHOWS 28-C MADE, WAS CR-8		
	WASHER 6 AC 365 A816-10		
W	ADDED -80 & -81 ASSY'S AN960-10 WAS AN515-10		
X	ADDED -7C REVISED POS. SWITCH & MOT. ASSY. NOS.		
Y	CHANGE TO ADD 28F1085-7 PER REF'S.		
Z	DIM. 4 7/16 WAS 5 7/16. ADDED FOLLOWING ASSY'S:-3,-3A,-4,-5,-6 PER 28-5048, MC, MR & MMC; MRO -10 & -11 FOR FBY-3A & FBY-4 ONLY; AC-80 & -81 FOR 28-8 MM		
	28F1024-5 SHOW IN THIS DWG & DELETE		
X	AN515-10 WAS AN515-08		
	-7E REVISED POS. SWITCH & MOT. ASSY. NOS.		
Y	CHANGE TO ADD 28F1085-7 PER REF'S.		
Z	DIM. 4 7/16 WAS 5 7/16. ADDED FOLLOWING ASSY'S:-3,-3A,-4,-5,-6 PER 28-5048, MC, MR & MMC; MRO -10 & -11 FOR FBY-3A & FBY-4 ONLY; AC-80 & -81 FOR 28-8 MM		
	28F1024-5 SHOW IN THIS DWG & DELETE		

(4) 8 x 2 x 1/8 ANGLE 8 LG. MAKE FROM 8 x 8 x 1/8 ANGLE IN CONDIE MP K 13424 FINISH T-P-T-P-6P

AC960-11
28F1065-2
28F1064-2

28F1064-4

DETAIL "A" 12"=1'-0"

AN442-D4 BUMP CHANNEL 1/16 FOR RIVET CLEARANCE

SEE DETAIL "A"

AN442-D4 AC425-D4

EDGE OF CHART BORED IN STOWED POSITION

AC425-D4 AN442-D4

(5) .030 AL ALLOY CHANNEL 18 1/8 LG. FINISH T-P-T-P-6P SEE DETAIL "A"

(6) 1/8 x 1/2 x .030 AL ALLOY CHANNEL 19 3/16 LG. FINISH T-P-T-P-6P

18 1/2 TO ℄ HULL

SEAT

CHART BORED INST ON L.H. SIDE ONLY

AN442-D4 (8 REQ)

AN515D8-10 AC365D8SE Q610DG-8 (1 EA. REQ'D.) (X)

SEE DETAIL "B"

DETAIL "B" SCALE 12"=1'-0" (U)

ANGLE OF SEAT WHEN IN NORMAL POSITION 12" WITH VERTICAL.

ANGLES OF TILT

SEAT IN FORWARD POSITION
FORWARD 3°
AFT 7 1/2°
TOTAL TILT 10 1/2°

SEAT IN NEUTRAL POSITION
FORWARD 8°
AFT 7 1/2°
TOTAL TILT 15 1/2°

SEAT IN REAR POSITION
FORWARD 3°
AFT 3°
TOTAL TILT 6°

NORMAL FORWARD POSITION OF SEAT

NORMAL POSITION OF SEAT 10" FWD OF NEUTRAL 2 1/2" NEUTRAL

28F1075 BEARING SET (REF)
28F1088 SHAFT (REF)
28F1074 ROLLER SET (REF)
(P) 28F1084 ROLLER
28F1082
AN960-816

SECTION SHOWING FRONT ROLLER BRACKET SCALE 12"=1'-0"

SLOTTED LINKS TO FACILITATE ENGAGEMENT OF PINS

SHAFT

FRONT OF SEAT

PLAN VIEW OF SEAT TILTING LOCK

28F1070 PILOTS SEAT L.H.
28F1070-1 PILOTS SEAT R.H.
FOR -10, -11 & -50 F-5T, P3S1/5.

(2) 28F1070-3 & L PILOTS SEAT L.H.
28F1070-3 & R PILOTS SEAT R.H.
FOR -60 & -61

TOP OF PILOTS FLOOR STRUCTURE

SEAT ℄ SUPPORT

18 1/2 TO ℄ HULL

AN3-5
AN310-3
AN960-82-2
AN3-4

NOTE
INSTALLATION IS SYMMETRICAL ABOUT ℄ HULL

28F1041 (REF)

RELEASE HANDLE FOR TILTING ADJUSTMENT

SEAT SHOWN IN NEUTRAL POSITION ADJUSTMENTS 3° FWD & 3° AFT MEASURED PARALLEL TO SEAT BOT.

RELEASE HANDLE FOR FORWD & AFT ADJUSTMENT

UPHOLSTERED CUSHIONS
28F1481 PILOTS SEAT BACK
28F1483 PILOTS SEAT BACK (REF)

95° (REF)

28F1151 PULLEY
Q610-6-20
MS28-48
(T) AN 320-3
AN 380-82-2
AN960-6

28F1080 SEAT SUPPORT L.H.
28F1080-1 SEAT SUPPORT R.H.
28F1060-70 L.H. } COMPT'S
28F1060-77 R.H. } ONLY

(V) 28F1068 L.H. } ADJUSTS 28F1015-10 OR
28F1068-1 R.H. } 28F1015-08 OR -10

28F1117

SEAT STOP (REF)

SEAT TILTS AROUND THIS ROLLER

AN4-6
AN 310-4
AN 380-82-2

AN3-18
AN960-3
AN960-816

AN3-4
AN 310-3
AN 380-82-2

28F1149 3/8 DIA ELASTIC EXERCISER CORD PROVISION FOR 2 IN ADJUSTMENT PROVIDED ON EACH END

AN960-416
AN 380-82-2
ON RODS MP
28F1085-2 & 6-7

AN3-4
AN 310-3
AN 380-82-2

16 11/16 INSIDE CHANNELS

4 1/8

(W) N°2 DLE'D

SIDE OF SEAT

DETAIL OF SEAT RELEASE FOR FORE & AFT ADJUSTMENT

NOTE SLOTTED HOLES IN LINK TO FACILITATE ENGAGEMENT OF PINS

℄ SEAT (REF)

NOTE
28F1140-20 REPLACES 28F1149 FOR -60 & 61 ASSEMBLIES.

8 1/8 TO ℄ SEAT

(APPROX)

28F1085-7 L.H. ROD
28F1085-3 OPP FOR R.H. SEAT
28F1085-6 R.H. ROD
28F1086-7 OPP FOR L.H. SEAT

1/2 DIA MIDDLE BRG
STEEL PLATE TRACK

28F1084 ROLLER
AN960-816

28F1090
28F1083
28F1081

(2) 1/2 DIA x .095 x 3/8 CRES TUBE, SPEC AN-WW-T-850, TS 90,000-125,000 PSI, - FINISH C.
(3) 3/8 DIA x 1/2 LG CRES PIN, SPEC AN-QQ-S-684, TS 65,000 TO 90,000 PSI.
PEEN LIGHTLY FINISH FLUSH-SECTION SHOWING REAR ROLLER & TRACK SCALE 12"=1'-0"

FINISH CODE
Z ZINC CHROMATE
P N-9 PRIMER
CP CADMIUM PLATE
C CORROSION PROOF

-6	FBY-6A	28F1789		REPLACED	
-8	FBY-8A	28F1789		REPLACED BY	
-9	FBY-9A	28F1789	4	LIST OF X-REFERENCE BOARD	
-3	FBY-3A	ASK1789	4	DRAWN	
-4	FBY-4A	ASK1789	4		
-5 A	FBY-5	ASK1789	4		
-5	FBY-6	ASK1789	4		
-7	FBY-7	ASK1789	4		
-8	FBY-8	ASK1789	4		
-9	FBY-9	ASK1789	4		
-3	FBY-10	ASK1789	4		
D/F	MODEL	NEXT ASSY	REQ		

REQUIREMENTS PER AIRPLANE

CONSOLIDATED AIRCRAFT CORP. SUFFOLK, N.Y.

SCALE 6"=1'-0"

NEXT ASSY	MOTSO	MOTSO	MOTSO
MATERIAL		HEAT TREAT	FINISH

PILOT'S SEAT INSTALLATION (FURNS)

SIZE J | 28F1024

H 279

28F1024 R

H 280

LET	ALTERATION	DATE	BY
AU	ON FACE OF DWG. FOR -21 ADDED. PC ⌀ AN DD-5 SHK & 11 T. SO. CONC. TO SLOOP ⅝" (NO SEC VIEW)		
AV	ON PAGE 2 IN REFERENCED A- PARTS CALLED OUT AS "REQ'D" OMIT WITH GRID & BOBS EQUIV MILL EQUIVALENT "AN 960-D10 WITH "AN 960 A10" (REQ WT CHG)		
AW	ON PAGE 1 ADDED NOTE "TO ¼ x 1 INCH BULB ANGLE ALLOY DIE # K-107 (1"/16/16" WITH "MIN RADIUS MAY BE ⅛" AS ALT" ⅛" RAD) ADJUST ½/⅜ AL ALLOY STRIP "Z" FIG 2 & 3) REMOVED FOR AN FIGS "A" & "B" & 1 ¼ x ¼ x ⅛ ANGLE ALLOY STRIP 2 REQ'D" REVISED WEIGHT FOR -21 & -23 AC ALL 2 ADT ⅛ x ⅜ x 2 ¼ LG. ALLOY 2024-T4 AL ALLOY PLATE 1960"		

LET	ALTERATION	DATE	BY
AX	CHANGED -3 & -7 TO ASSY IDENTICAL TO -5 & -9 (RESP)		
	EXCEPT OMIT 28F1547 ARM REST (BLANKET ROLL) (PBY-5A)		
	28F1544-9(D) 28F1544-7(D)		
	28F1544-8(D) 28F1544-5(D)		
	CANCELLED CHEESECAKE		
	AN425-DD-DIM G DDDS -DD-D		
	CANCELLED AN320-5(D)		
	AN380-2-2(D) AN364-D10		
	ADDED FLUSH RIVET	3-22-43	GEVERS
	NOTE -3 & -5 R.H.		
	28-33-11-43 13-03		
AY	ADDED 28F1543-3 MAIN -3 & -5 ASSY	4-21-43	CROWTHER
	DRILL #48 IN 28F1070 W/ CHG REQ'D	4-21-43	CROWTHER
AZ	ADD HOLE ⅜ DIA DIM & NOTE	4-22-43	KRUEGER
	FOR PBY-5 WT CHG REQ'D	4-22-43	KRUEGER
BA	REVISED MODEL BLOCK NO. WT CHG	4-22-43	KRUEGER

SUPPLIES & EQUIPMENT CLASSIFICATIONS			
LET	ALTERATION	DATE	BY
V	TRACED UP TO DATE	4-20-43	VMC
Z	ENG'D AND WAS AAC-5	9-5-37	PAUM
A-A	ADDED AC 1365-814 BL -33	11-13-37	MTM
A-B	REMOVED C- FROM -7 & -29 -30	7-28-38	"
A-C	CHANGED PARTS ATTACHED -7 & -29 -30	2-28-39	WORKMAN
	PER ERDA AN320-3 & AN380-BLG		"
	AN 320-3 & AN 960-10		"
	1365-814 TO 1365-814		"
	1365-814 TO 1365-814		"
AD	CHANGED -E MAT'L FROM 24S-T TO 2017-T		"
AL	REMOVED INBOARD ARM ASS'Y	4-16-43	KIMB
	CHANGED SECTION C-C TO E-E		"
AJ	REMOVED -11 -13 REQ FOR	4-8-43	GREIG
	-19 -21 ON ALL & -29 -30		
	INITIAL ISSUE		
	CORRECTED NOTES ON TABLE		
	PARTS (ON FACE OF DWG		
AG	½ x ⅝ x 18 WAS ⅝ x ⅝ x 18 ALLOY	11-5	GREIG
AH	1¼ x 1¼ LONG WAS 1 ¼	11-5	GREIG
	½ LONG WAS ⅝		
AO	AN380-8 WAS AC 365-832 ANGLE		
AP	ADDED -27/32 -28	2-6-43	RAE
AR	ADDED ½ x R 11/16 -29 & -30	2-26-43	Ehrt
AL	IN ⅜ DIM ON DWG - AN 426-3 3 WAS		
	AN 426-3 7 AR 26-3 7 WAS AN 426-3 3	3-6-43	DEHART
AM	28881-3/32 DIA TWO TAPPING HOLES OR 11/32	3-26-43	KAISER
	3/32 DIM WAS 5/16 - 3/16 WAS 1/2 - 3/32 ONLY		
AN	CHANGED "-3 & -7 TO CAC"	3-24-43	LYON
	PER ECN-20 W/ CPR 826		

PBY-5	28AF1543-5	A	28F1070
PBY-5A	28AF1543-7	A	AN960-10
PBY-5	28AF1543-9	A	AN960-D10
PBY-5A	28AF1543-11	A	AN960-416
PBY-5	28F1543-3	A	AN960-416L
PBY-5A	28F1543-5	A	AN960-D416
PBY-5	28F1543-7	A	AN960-D416L
PBY-5A	28F1543-9	A	AN960-D416L
PBY-5	28F1543-11	A	AN960-D416L
PBY-5	28F1544-3	A	AN960-D416L
PBY-5A	28F1544-5	A	AN960-D416L
PBY-5	28F1544-7	A	AN960-D416L
PBY-5A	28F1544-9	A	AN960-D416L
PBY-5	28F1544-11	A	AN960-D416L
PBY-5A	28F1544-13	A	AN960-D416L
PBY-5	28F1544-15	A	AN960-D416L
PBY-5A	28F1544-17	A	AN960-D416L
PBY-5	28F1544-19	A	AN960-D416L
PBY-5A	28F1544-21	A	AN960-D416L
PBY-5	28F1544-23	A	AN960-D416L
PBY-5A	28F1544-25	A	AN960-D416L
PBY-5	28F1544-27	A	AN960-D416L
PBY-5A	28F1544-29	A	AN960-D416L

28FA2334			
28F6233			
9-7102-A8			
-31	2	2	2
-31	2	2	2
28F1030	1	1	1
28AF1070-31	1	1	1
28AF1070-33	1	1	1
28F1070-35	1	1	1
28F1070-37	1	1	1
28F1544-39	1	1	1
-7	0	0	0
-9	0	0	0
-11	1	1	1
-13	1	1	1
28F1544-3	1	1	1
9-7102-06-25	1	1	1
9-7102-06-27	1	1	1
9-7102-06-29	1	1	1
9-7102-06-31	1	1	1
28F1544-3	1	1	1
28F1544-5	1	1	1
9-7102-06-33	1	1	1
9-7102-06-35	1	1	1
9-7102-06-37	1	1	1
9-7102-06-39	1	1	1
28F1544-3	1	1	1
28F1544-5	1	1	1
28F1544-7	1	1	1
28F1544-9	1	1	1
28F1544-11	1	1	1
28F1544-13	1	1	1
28F1544-15	1	1	1
28F1544-17	1	1	1
28F1544-19	1	1	1
28F1544-21	1	1	1
28F1544-23	1	1	1
28F1544-25	1	1	1
28F1544-27	1	1	1
28F1544-29	1	1	1
-31	2	2	2
-33	2	2	2
-35	2	2	2
-37	2	2	2
-39	2	2	2
-20	2	2	2
-18	2	2	2
-16	2	2	2
-14	2	2	2
-12	2	2	2
-10	2	2	2
-8	2	2	2
-6	2	2	2
-4	2	2	2
-2	2	2	2
PART			

FINISH CODE	
A	ZINC CHROMATE PRIMER
B	A-N PRIMER
AM	ALUMINIZED PRIMER A
C	CADMIUM PLATE

FINISH
OP. GREEN PRIMER

13.03 FOR -D, -F, -7 & -29 ASSYS
06.33 - -21 ASSY

REPLACES			
ADDED TO			
USED ON			
SCALE 6 = 1"	CK'D BY	DATE	
DRAWN	NOTED	NOTED	NOTED
MATERIAL	SPEC.	HEAT TREAT	FINISH

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SEAT ASSYS. PILOTS

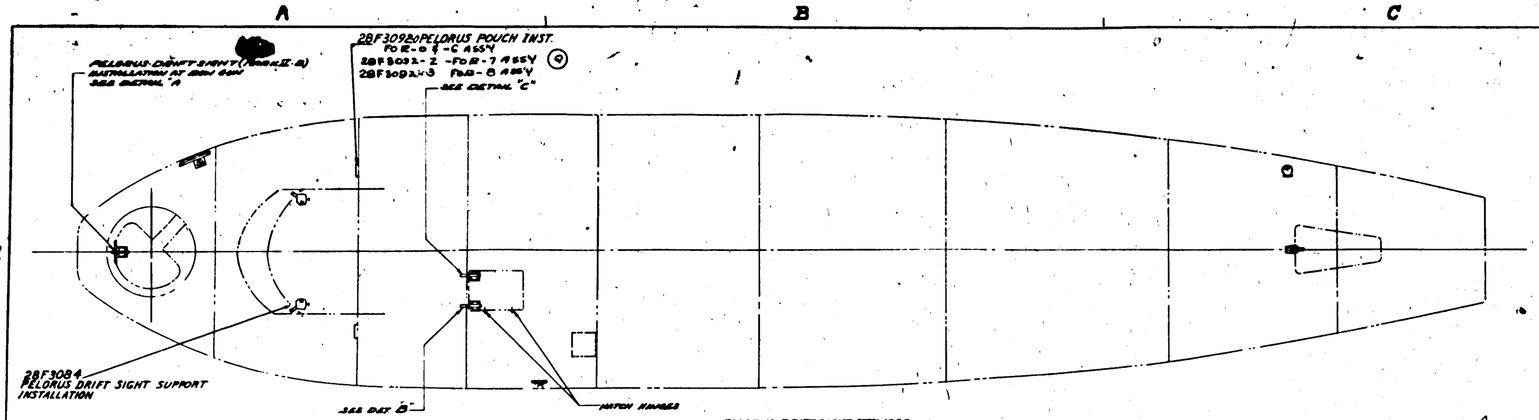
DWG NUMBER 28F1070

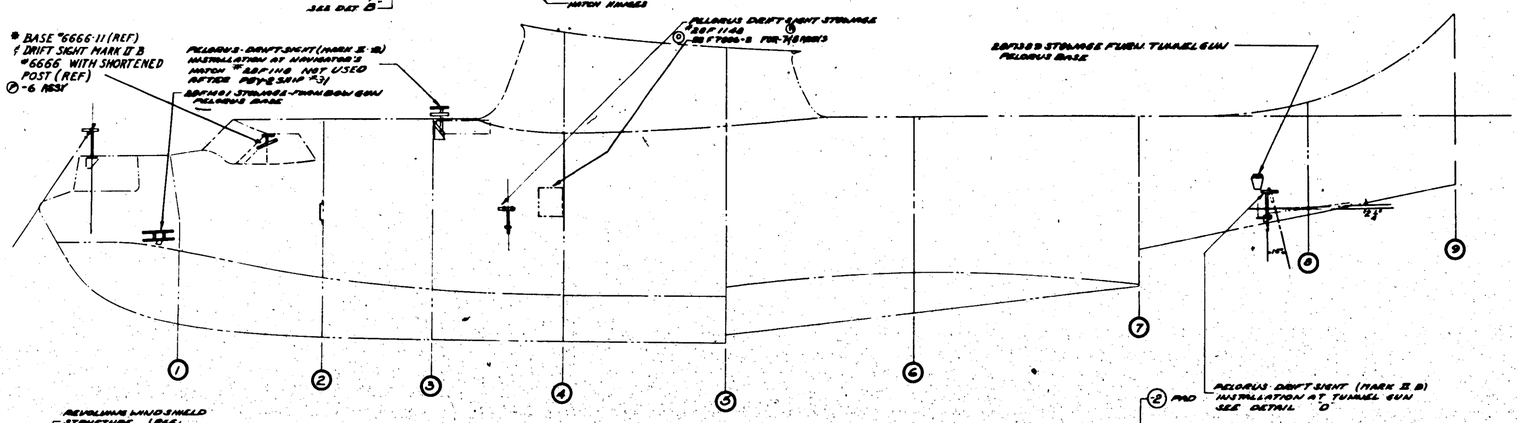
R 28F1070

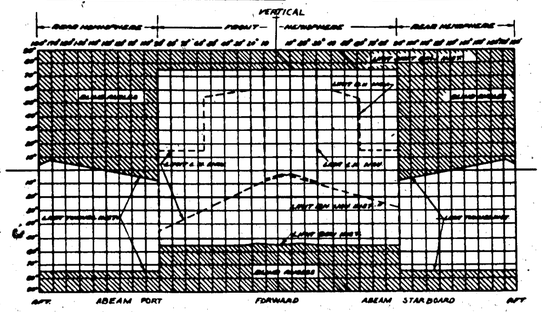
LET	ALTERATION	DATE	BY
B	CHANGE -7 ASSY TO -6 ASSY FOR PBY-5 CANADIAN CONTRACT		
	PER LETTER [redacted] ON [redacted] AUTH: [redacted]		
	NO WT CHANGE	7-10-43	STEPHENS
T	INSTALLED LIMITED 28F3084-1 PBY-5A BOARD SHIP "ITD 16178 & "C"16424-C "17118 & 18478 "D"		
	MFG (PBY-5 "1496, 1N-86-B		
	BRACKET ADDED 28F3082-3(L)		
	WELDED 28F3082-3 PBY-5		
	C"18176 "D" 16424-C "17118 & 18478 "D"		
	PLATE & 2 WASHERS "3616		
	PLATE ADDED		
	28F3082-3 (L) WELDED		
	28F3082-3 PBY-5		
	C"18176 "D" 16424-C "17118 & 18478 "D"		

E.O. A61717

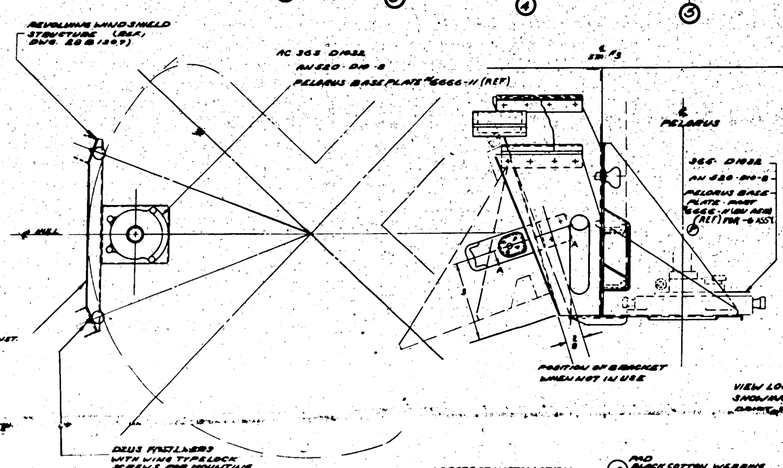
LET	ALTERATION	DATE	BY
J	TRACED TO DATE	2-26-44	Fisher
K	REMOVED BRACKETS FOR 28F1003-1 TO -3 & 28F1118		
	FROM PBY-2 SHIP #'S ON	9-18-43	Stevens
L	ADDED 28F3084-1 & 28F3092	11-9-43	Adams
	REMOVED 6666-11 FROM		
	Mat'l REFERENCED ON DWG.		
M	REMOVED -0 ASSY BRACKETS PBY-5 #'S	3-1-44	Stevens
N	ADDED PELORUS DRIFT SIGHT	4-20-44	Hoffman
	MARK II-C TSSC NO. 88-N-175		
	SPEC. S-189 REV FOR -7 & -8		
O	ADDED NOTE IN REF: 0-5A CONFIGS		
	STD BASE PLATE		
	IN Mat ADDED 28F7356-1 IN -7 & -8 ASSY AND 28F7356-2 IN -7 ASSY ADDED CONTRACT NOS		
	IN REF PER AIRPLANE COLUMN		
	ADDED -7 PBY-5 -28F1002-1 -6 PBY-3 -28F1002-2 -7 PBY-5A 28F6002-1 -8 PBY-5 -28F1002-2		
P	ADDED FOR -6 ASSY.		
-D	28F3092-3 REPLACED 28F3092-8 IN -7 ASSY & 28F3092-9 REPLACED 28F3092-0 IN -8 ASSY NO WT CHG	12-23-43	BRYN
P	28F7356-1 REPLACES 28F7356		
	IN -8 ASSY ADDED 28F7356-2 TO -6 ASSY LIMITED TO PBY-5B ONLY REMOVED NO. 6666 FROM -7 ASSY NO WT. CHG	6-28-45	BRYN





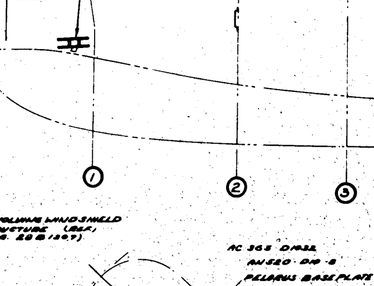


SCOPE OF SIGHT ANGLES FOR PELORUS DRIFT SIGHT
(P) FOR -6 A55Y

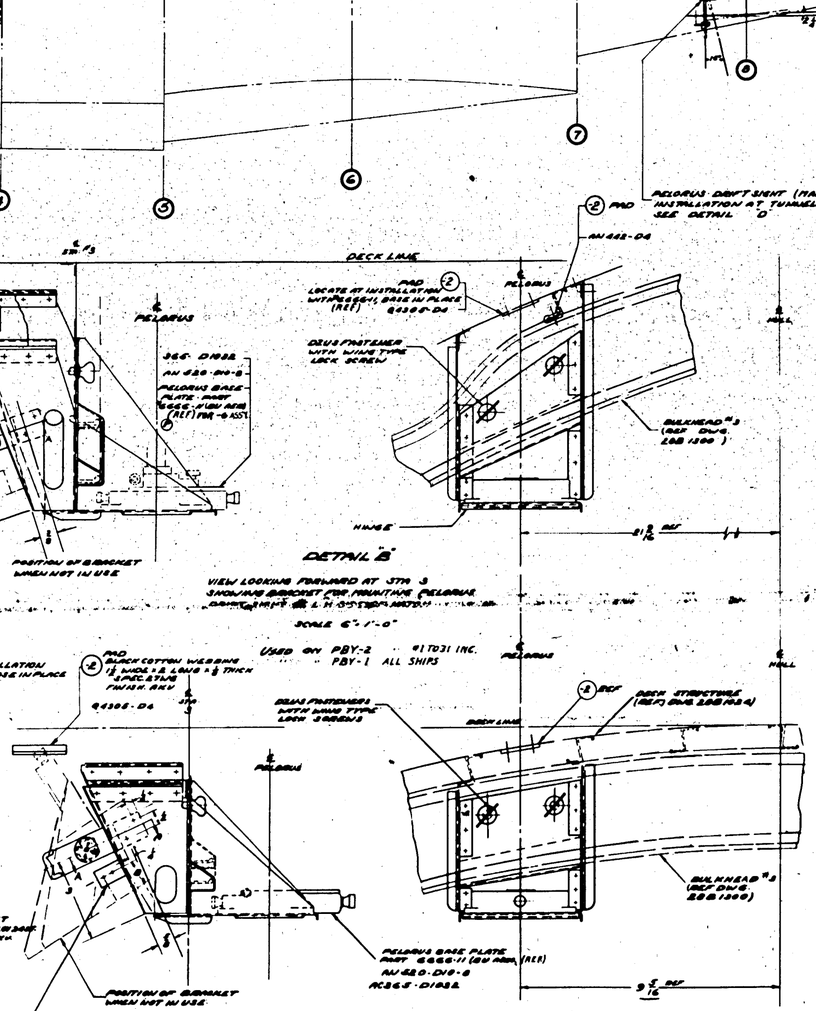


DETAIL "A"
PLAN VIEW OF GUN TURRET MATCH-SHOWING PELORUS DRIFT SIGHT MOUNTING
SCALE: 3" = 1'-0"

DETAIL "B"
VIEW LOOKING FORWARD AT STA 3 SHOWING BRACKET FOR MOUNTING PELORUS ON [illegible] LH SIDE OF NAVIGATOR'S MATCH
SCALE 6"-1'-0"
Used on PBY-2 #'s 1 TO 31 INC.
PBY-1 ALL SHIPS

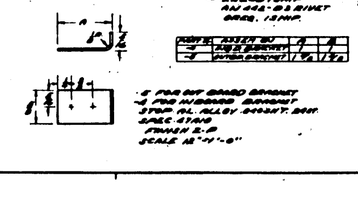


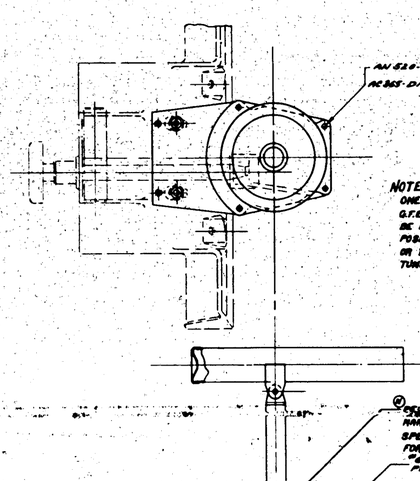
SECTION A-A
SCALE 15"-1'-0"



DETAIL "C"
REAR VIEW OF STA. "3 SHOWING BRACKET FOR MOUNTING PELORUS DRIFT SIGHT AT RH SIDE OF NAVIGATOR'S MATCH
SCALE: 6" = 1'-0"
Used on PBY-2 SHIP #'s 1 TO 31 INCLUSIVE
PBY-1 ALL SHIPS

NOTE
ATTACH -4 & -5 SO THAT THESE WILL BE SUFFICIENTLY TENSION TO STRAP WHEN LIFT THE DOT IS ENGAGED TO PREVENT RATTLING





DETAIL "D"
FOR ADDITIONAL INFORMATION REF: DWG 28 A 1009
SCALE 6"=1'0"

-6	PBY-5B	28F1002-1	1	
-6	PBY-5B	28F1002-2	1	
-6	PBY-3	28F1002-2	1	
-7	PBY-5	28F1002-1	1	
-7	PBY-5A	28F6002-1	1	
-8	PBY-5	28F1002-1	1	
-8	PBY-5A	28F6002-1	1	
-6	PBY-5A	28F1002-1	1	
-6	PBY-3	28F1002-2	1	
-7	PBY-5	28F1002-1	1	
-8	PBY-5	28F1002-2	1	
-8	PBY-5A	28F6002-1	1	

	AC 825-8 STUD		1	
	AN 515-8R7 BOLT		1	
	AN 520-D10-8		1	
	AN 520-D10-12		1	
	AC 365-D1032		1	
	AC 365-D1032		1	
	AC 825-2		1	
	AN 442-D4		1	
	AN 515-8R7		1	
	28F1076		1	
	28F1076		1	
	28F1076

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
M	TRACED	6-8-37	
N	ALL PARTS CANCELLED FOR PBY-5 EXCEPT 28F1160-3 & -154-36	7/16/37	
P	-19 WAS CALLED OUT AS -1	9-9-37	

1/16 DRILL 3 HOLES

BEND RADII 3/32

(32) OPPOSITE

SECTION H-H
SCALE 12"=1'-0"

NOTE
RIVET ENDS FIRST THEN SPOTWELD APPROX 1" OC

FRONT OUTSTANDING LEGS TO CLEAR DOOR

FLUSH HEAD THIN RIVET

CUT OUTSTANDING LEGS AT 45° JOGGLE ENDS 3/16

CUT OUTSTANDING LEGS AT 45° JOGGLE ENDS 3/16

ANGLE DR

1/16 R; 1/8 R; .051 ALL ANGLES

SECTION E-E
SCALE 12"=1'-0"

SECTION A-A
SCALE 12"=1'-0"

FLUSH RIVET

SECTION B-B
SCALE 12"=1'-0"

NOTE
DO NOT DRILL OR RIVET UNTIL INSTALLATION OF FOOD LOCKER

SECTION C-C
SCALE 12"=1'-0"

SECTION F-F
SCALE 12"=1'-0"

SECTION D-D
SCALE 12"=1'-0"

(2) STOCK WIDTH 1 1/32

SECTION G-G
TYPICAL CORNER ANGLE
SCALE 12"=1'-0"

NOTE
WHEREVER ⊕ IS SHOWN RIVET AN442-DR IS USED APPROX 60 SECS ALL OTHER ATTACHMENT IS SPOT WELD SPACED APPROX 1" OC

.051 ALCLAD AL ALLOY 2630 IS USED FOR -2, -3, -4, -5, -6, -7, -10, -11, -12, -13, -14, -15, -16, -17, -18, -24

.030 ALCLAD AL ALLOY 24ST IS USED FOR -19, -20, -30, -31, -32, -33, -63

.081 AL ALLOY SHEET 24ST IS USED FOR -25

.081 AL ALLOY SHEET 2630 IS USED FOR -26 & -32

HEAT TREAT ALL 24ST STOCK AFTER FORMING

.030 AL ALLOY ALCLAD SHEET (2630) SPEC 4748 (COND T) USED FOR -28, -29, -34, -36

.059 ALCLAD 24ST IS USED FOR -8

X	ARCRIC WELDED
F	FAY FUSED
AP	ALUMINOPLATED
C	CHROMIC PLATE

28F1160		BY	CH
	-32		
	-31		
	-30	2	2
	-29		
	-28	2	2
	-27		
	-26		
	-25		
	-24		
	-23		
	-22		
	-21		
	-20	2	2
	-19		
	-18		
	-17		
	-16	2	2
	-15	2	2
	-14	2	2
	-13	2	2
	-12	2	2
	-11	2	2
	-10	2	2
	-9		
	-7		
	-6	2	2
	-5		
	-4		
	-3	6	6
	-2	6	6

28F1160			
	PBY-1	28F1247	
	PBY-3	28F1247	
	PBY-2	28F1247	
	PBY-4	28F1064	
	PBY-5	28F1064	
	PBY-2	28F1159	
	PBY-4	28F1159	
	PBY-5	28F1159	

DISPLACED		6-9-37	
DISPLACED BY		DATE	
LIST OF STANDARD HOLES			
DRILL 3/16" C'SK 100° INSTALL			
ALL	KEY BY	DASH	MODEL
WEIGHT NOTED		NOTED	SPEC
WEIGHT	MATERIAL		

REQUIREMENTS PER AIRPLANE

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME: BOX - FURNISHINGS FOOD LOCKER

DRAWING NUMBER: 28F1160

H 282

LET.	ALTERATION	DATE	BY

LET.	ALTERATION — REVISED — NO WT.	DATE	BY
Y		8 JUL 43	

28F1451
AN315-3R
AN935-10
AN960-10

DETAIL A
ATTACHMENT OF SIGHT TO ANTI VIB MOUNT

28F1441 BOLT
AN315-3R
AN935-10
AN960-10

28F1451 BUSHING (PBV-1 ONLY)

DETAIL B
ATTACHMENT OF SIGHT TO ANTI V.I.B. MOUNT
(TYPICAL FOR 4 MOUNTS)

28F1203 (REF)

AN 23-19
AN 320-23
C610-6-3
AN 380-2-2

BOLT HEAD FACES OUTWARD ON R.H. SIDE

SECTION B-B

28F1206 (REF)
28F1252 (REF)

DETAIL C

AN 6415-46R
AN316-5R

5R-32-5N DUMMY RECEPTACLE (NAF 310310-3) AN 442-AD4 (RIVETS)

28F1111

AN 442-D4

C-320-10-6

28F1334

28C1066-2

28F1419 (REF)
AN320-10-6 (REF)
AN 935-10 (REF)

A

B

B

B

A

A

90° (REF)

18 1/2" (REF)

22 1/4"

AN3-7A BOLT
AC365-1032 NUT
Q7102-ALIO WASHER

28A5113 PLATE

REAM .3750 +.0010 -.0000 THRU ON ASSY WITH 28A5113 (28F1111)

LINE REAM FOR RUNNING FIT WITH 28F1201 AN960D1016 (AN380-2-4

28F1206
AN 360-10
AN 23-14
AN 320-3
A-301 BUSH.-AMPLEX MFG CO.
AN 380-2-2

5K-32-5N DUMMY RECEPTACLE
NAF 310310 (REF)
AN442AD4 (REF)

28F1206
Q7102-AL12-.031
28F1252
AN 23-15
AN320-3
Q600-86-8

28A5111 TRUNNION
Q600B6-16 SPACER
AN320-4 NUT
AN380C2-2 COTTER

28A5113 (REF)

1/2" RAD. DRILL THRU ON ASSY (2 HOLES)

ALLOW 1/64" END PLAY IN SHAFT

AN 23-18
AN320-3
AN380-2-2

4 13/32

LINE REAM IF NECESSARY FOR RUNNING FIT WITH TUBE

AN 23-12
AN 320-2
C610-6-15
AN 380-2-2

28F1111 (REF)

28F1391

28F1391

24F1204

C610-6-3

AN 23-10
AN 320-3
AN 380-2-2
(4 PLACES)

28F1203

28F1203-1

SECTION A-A

AN320-10-6 (1)
AN 935-10 (1)

AN3-4
AN 315-3R
STAKE THRDS
(6 REQ'D)

28F1419
AN320-10-6
AN 935-10
(3 REQ'D)

VIEW SHOWING INSTALLATION OF VIBRATION MOUNTINGS.
SCALE 6 = 1'-0"

NOTE
-Z FINISH CADMIUM
* = GOVT FURNISHED

PART NO.	STOCK	MATERIAL	SPEC.

AS		ADAMS		LCW
NAVY NONE	NOTED			
HEAT TREAT	NONE			
NAME MOUNT ASSEM.-FURNS MARK XV BOMBSIGHT		SIZE J	28F1200	

ENG. FILE

H 283

28-F1200-R

INCORPORATES
PBY-1 BU[illegible] CHG. 8131
PBY-2 " " 891

LET	SUPPLIES & EQUIPMENT CLASSIFICATION / ALTERATION		
D	ITEMIZED		
E	-50 ASSY. ADDED BY -0		
	MATERIAL & FINISH ADDED BY		
	28F1497-0		
F	ADDED -30, -32 & NOTE 28 &C		
	ADDED NOTE ABOVE D-4		
	& NOTES		
G	ADDED -40 INSTALLATION FOR PBY-4		
H	MADE -40 ASSY. EFFECTIVE ON PBY-3		
J	ADDED -50 & NOTE		
K	REMOVED WHEEL & TUBE; ADD -50 CLASS 1A TO 6A FOR 28-1A1		
K	ADDED 28F5561 & Q430304		
L	REMOVED SERIAL & NOTE 4; ADDED A NEW NOTE		

C.O. 7199
C.O. 7877
EO 19265
EO. 19206

(REF) 28FM32

LINE REAR BOTH RUDDER PEDALS TO 1/8 DIA.

28F1497 (REF)

CONTROL LOCK

(J) STENCIL "CONTROL LOCK" ALONG (L) BARREL OF LOCK - 1/4 WHITE LETTERS

10 1/4 TO ℄ HULL (REF)

17 1/16 TOP SHIP

1/8 REF

16 15/16 TO KEEL LINE (REF)

Q430304 (2) PLUSH BOTH SIDES (K)

VIEW A-A

28F1497
28F1497-50
WHEEL LOCK

(K) 28F5561 (1 REQ/SHIP)

ELEVATOR CONTROL WHEEL

50°

A

A

SEW Q5761-KB-45 TO STRAP ASSY Q5728-K1-50 FOR REINF.

SEW STRAP TOGETHER

(J) ASSY USED WITH 28F1497-40 (G)

STA 166

STA 133

10

STENCIL ON STRAP BLACK LETTERS AS SHOWN

PILOTS SEAT

PUSH PEDALS

STENCIL ON STRAP BLACK LETTERS AS SHOWN

Q5728-K1-60 STRAP (USED WITH 28F1497)

NOTE: TO SEW STRAP-SET 6" DIA. TIGHTEN STRAP AND SEW TOGETHER (THIS END ONLY)

(2) 28F1492 RUDDER LOCK

28C004 (REF.) ELEVATOR CONTROL YOKE

RUDDER CONTROL PEDALS

PILOTS SEAT IN NEUTRAL POSITION

PILOTS SEAT SUPPORT (REF.)

STA 2.0 FORWARD

TO INSTALL LOCK.

PBY-1

FROM SENT END OF WHEEL LOCK 28F1497 OVER BLACK STRIP ON LOWER SILL OF WINDOW BEHIND PILOTS SEAT. PUSH YOKE FORWARD. LINE UP LOCK WITH LOWER SPOKE OF WHEEL BUT WITH LOCK ABOVE YOKE. RETURN YOKE AFT - PULL ON LOCK WILL THEN DROP IN PLACE ON YOKE - LOCKING ELEVATOR & AILERON.

INSERT RUDDER LOCK 28F1492 THRU WHEEL, STAGGER RUDDER PEDALS - INSERTING RUDDER LOCK INTO LEFT PEDAL FULLY WITH SPACER FROM TO RETURN PEDALS TO NEUTRAL - SLIDE TUBE INTO RIGHT PEDAL (THRU) AND REVOLVE AFT APPROX. 90° TO PREVENT DISENGAGEMENT.

TIGHTEN WEB STRAP TO MODERATE TENSION TO PREVENT LOCK FROM SLIPPING OFF YOKE.

TO REMOVE LOCK REVERSE ABOVE PROCEDURE.

PBY-2

SAME PROCEDURE AS FOR PBY-1 INSTALL

PBY-3 & 4

ON -40 ASSY, STRAP IS ATTACHED TO PILOTS SEAT SUPPORT

FOR PBY-2 ONLY —

METHOD OF INSTALLING STRAP ON CONTROL LOCK - STRAPS TO PASS THROUGH TWO LOOPS & AROUND RUDDER LOCK ON LOWER END AND AROUND WHEEL LOCK ON UPPER END.

PASS STRAP OVER WHEEL LOCK & DOWN THRU LOOP. SEW AS FOR PBY-1

WHEEL LOCK (REF) 28F1497

SEW Q5761-KB-45 IN PLACE HERE, TO REINFORCE Q5728-K1-60, WHERE IT PASSES OVER CONTROL LOCK TUBE

RUDDER LOCK (REF) 28F1492

(2) ASSY (USED WITH 28F1497)

(K) 28F5567 28F5570

SCALE NONE

PASS STRAP AROUND RUDDER LOCK & THROUGH LOOP.

* NOTE:-
(1) -50 ASSY. USED ON SHIP #1 ONLY, XPBY-3A. FOR FUTURE AMPHIBIANS USE -40 ASSY.

FOR PBY-1 & 2 SPARES ORDER -40
FOR PBY-3 & 4 SPARES ORDER -40
#1-84

(1) SEE NOTE *

-40	PBY-5	28F1001
-56	PBY-5A	28F1801
-50	XPBY-5A	28F1001
-48	PBY-4	28F1001
-40	PBY-3	28F1001
-30	PBY-2	28F1001
	PBY-1	28F1001

(K) 28F5567
28F5570
Q430304
Q5728-K1-60
Q5761-KB-45
28F1497-3 SUB-ASSEM.
28FM32
28F1497
28F1497-2 SUB-ASSEM.
28F1497-30
28F1497-40
Q5728-K1-60
28F1492
(1) -30 -40 -50 (2)

REPLACES
REPLACED BY
LIGHT ON DRAWING UNLESS OTHERWISE SPECIFIED ± NONE
SCALE 3"=1'-0"
APPROVED K.B. 7.8.37 DATE
CALC WT. ACT WT.
AG
MATL NOTED
MATERIAL
NOTED NOTED
SPEC. HEAT TREAT
O.H. MODEL NEXT ASSY. REQ.
REQUIREMENTS FOR AIRPLANE
PARTS LIST FOR ASSY.
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
NAME INSTALLATION CONTROL LOCK
DWG. NO. J 28F1489
SHEET 1 OF 1 SHEETS
DRAWN CHECK ENG.

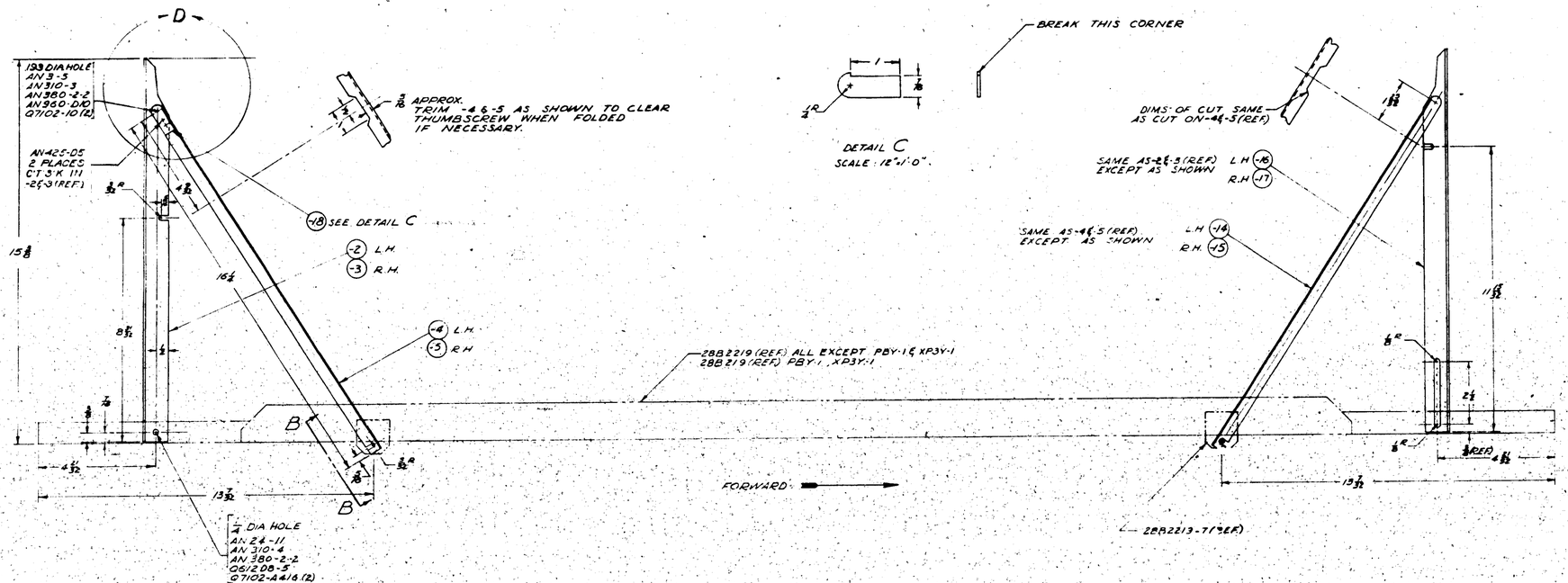
H 284

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
V	TRACED NO WT. CHG.	9-17-43	PAIGE
W	IN -5 & -8 USE A4168 REQ. MAN (8) AN470AD 2710E-10 (2 REQ) Q7102-3 (4 REQ) IN -14 & -15 SUB ASSY Q7102-10 (2 REQ) MAS OMIT -3 (8A) AN470-D-3 (1 REQ) WAS (8 REQ) IN GENERAL 8/24		
	IN -14 & -15 SUB ASSY. Q7102-10 (2 REQ) FOR 2 REQ. OMIT -3 & -6	9-17-43	PAIGE
X	-18 USE -16 & 17 & -5 & -6 ALL AL. MAS -18 & -5 & -6 & 17 & -7 AL ALL. WT. CHG. REQ.	9-17-43	PAIGE

ASSY. 28F1495-11 R.H. SHOWN HERE - 10 L.H. OPP.

ASSY. 28F1495-13 R.H. SHOWN HERE - L.H. OPP.



DETAIL C
SCALE: 12" = 1'-0"

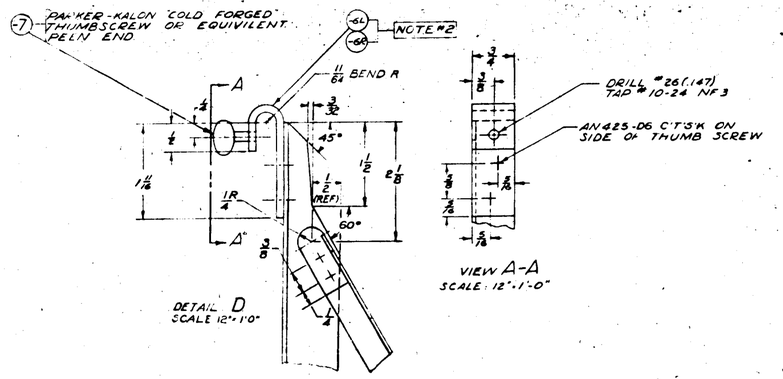
NOTE:
1- ALL BOLTS SCREWS ETC. TO BE INSTALLED AT ASS'Y EXCEPT AN 3-5, AN 310-3, AN 380-2-2 & AN 425-D5.

2- INSERT FABRIC IMPREGNATED WITH BITUMATIC PAINT BETWEEN -2, -3 & -6

3- CUT BACK ALL OUTSTANDING LEGS OF ANGLES 22½° - 45° - 67½°

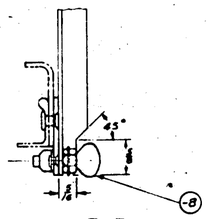
4- L.H. ASSEM. FORWARD - 28F1495-12 (REF.)
R.H. ASSEM. FORWARD - 28F1495-13 (REF.)
L.H. ASSEM. REAR - 28F1495-10 (REF.)
R.H. ASSEM. REAR - 28F1495-11 (REF.)

FINISH NOTE:
FINISH -2, -3, -4, -5, -14, -15, -16, -17, -18, ZP-2-GP
FINISH -6 C-P-2GP
FINISH - 7 & -8 C.



DETAIL D
SCALE 12" = 1'-0"

VIEW A-A
SCALE: 12" = 1'-0"



VIEW B-B
SCALE 12" = 1'-0"

PARKER-KALON 'COLD FORGED' THUMBSCREW AN 315-3R(2) FACE SCREWHEAD TO FIT AN 940-316 WASHER - TAKE NUTS UP TIGHT AGAINST SCREWHEAD - STAKE NUTS TO SCREW 3 PLACES. INSERT SCREW INTO STOP NUT - PEEN END OVER WELL. ATTACH STOPNUT BEFORE ASS'Y TO CROSSWALK

FINISH CODE	
Z	UNDETERMINED
P	PAINTED
CP	INT. "
C	ALM METAL

H 285

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.
	PARTS LIST PER ASSY.			-8					
-7	SUB-ASS'Y			/	/				
-8	SUB-ASS'Y			/	/				
-11	SUB-ASS'Y			/	/	1	1		
-10	SUB-ASS'Y			/	/	1	1		
Q7102-A416				8	8				
Q612-08-3				4	4				
AN 960-D10				4	4				
AN 380-2-2				4	4				
AN 425-D5				4	4				
AN 310-4				2	2				
AN 24-11									
-5	10-32 x 1" (NOT COUNTERSUNK)		AN 503-632-8	4	4				
-4	SUB-ASS'Y			/	/				
-3	SUB-ASS'Y			/	/	1	1		
-2	SUB-ASS'Y			/	/	1	1		
-10	SUB-ASS'Y			/	/				

-18	1.25 x 3/8 x 3/8	AL AL SHT	QQ-A-355-T	/							
-17	.288 x 1.5/8	AL AL EXT	6A49-T	/							
-16	4.78 P x 1.5/8	AL AL EXT	6A49-T	/							
-7	10-24 x 5/8 (THUMBSCREW)			/							
-6R	.125 x 7/8 x 3	C.M. SHT	AN-QQ-S-685	/							
-15	SUB-ASS'Y										
Q7102-10											
AN 960-D10											
AN 425-D5											
AN 425-D5											
AN 380-2-2											
AN 310-3											
AN 3-5											
-18	1.25 x 3/8 x 3/8	AL AL SHT	QQ-A-355-T	/							
-16	1.288 x 1.5/8	AL AL EXT	6A49-T	/							
-14	4.78 P x 1.5/8	AL AL EXT	6A49-T	/							
-7	10-24 x 5/8 (THUMBSCREW)			/							
-6L	1.25 x 7/8 x 3	C.M. SHT	AN-QQ-S-685	/							
-12	SUB-ASS'Y										
Z-E-10					2						
AN 960-D10					/						
AN 425-D5					/						
AN 425-D5					/						
AN 380-2-2					/						
AN 310-3					/						
AN 3-5					/						
-18	1.25 x 3/8 x 3/8	AL AL SHT	QQ-A-355-T	/							
-7	10-24 x 5/8 (THUMBSCREW)			/							
-6	1.25 x 7/8 x 3	C.M. SHT	AN-QQ-S-685	/							
-4	4 TAP 1.5/8	AL AL EXT	6A49-T	/							
-2	1.288 x 1.5/8	AL AL EXT	6A49-T	/							
-10	SUB-ASS'Y										
Q7102-A416					8	8					
Q612-08-3					4	4					
AN 960-D10					4	4					
AN 380-2-2					4	4					
AN 425-D5					4	4					
AN 310-4					2	2					
AN 24-11											
-5	10-32 x 1" (NOT COUNTERSUNK)		AN 503-632-8	4	4						
-4	SUB-ASS'Y			/	/						
-3	SUB-ASS'Y			/	/	1	1				
-2	SUB-ASS'Y			/	/	1	1				
-10	SUB-ASS'Y			/	/						

-28-SMN	1N8223/8		
-28-2NC	1N8223/8		
-28-SNN	1N8223/8		
-28-2TC	1N8223/8		
-28-2NC	1N8223/8		
-28-SNA	1N8223/8		
FAT-3A	2N8223/8		
FAT-3A	1N8223/8		
FAT-5	1N8223/8		
FAT-3	1N8223/8		
FAT-2	1N8223/8		
FAT-2	1N8223/8		
FAT-1	1N8223/8		
FAT-1	1N8223/8		
17-DX-7	1N8223/8		

-8	10-32 x 1" (NOT COUNTERSUNK)		AN 503-632-8	4	4						
-7	SUB-ASS'Y			/	/						
-8	SUB-ASS'Y			/	/						
-11	SUB-ASS'Y			/	/	1	1				
-10	SUB-ASS'Y			/	/	1	1				

-18	1.25 x 3/8 x 3/8	AL AL SHT	QQ-A-355-T	/							
-17	.288 x 1.5/8	AL AL EXT	6A49-T	/							
-16	4.78 P x 1.5/8	AL AL EXT	6A49-T	/							
-7	10-24 x 5/8 (THUMBSCREW)			/							
-6R	.125 x 7/8 x 3	C.M. SHT	AN-QQ-S-685	/							

-18	1.25 x 3/8 x 3/8	AL AL SHT	QQ-A-355-T	/							
-16	1.288 x 1.5/8	AL AL EXT	6A49-T	/							
-14	4.78 P x 1.5/8	AL AL EXT	6A49-T	/							
-7	10-24 x 5/8 (THUMBSCREW)			/							
-6L	1.25 x 7/8 x 3	C.M. SHT	AN-QQ-S-685	/							

-12	SUB-ASS'Y										

Z-E-10					2						

AN 960-D10					/						
AN 425-D5					/						
AN 425-D5					/						
AN 380-2-2					/						
AN 310-3					/						
AN 3-5					/						

-18	1.25 x 3/8 x 3/8	AL AL SHT	QQ-A-355-T	/							
-7	10-24 x 5/8 (THUMBSCREW)			/							
-6	1.25 x 7/8 x 3	C.M. SHT	AN-QQ-S-685	/							
-4	4 TAP 1.5/8	AL AL EXT	6A49-T	/							
-2	1.288 x 1.5/8	AL AL EXT	6A49-T	/							

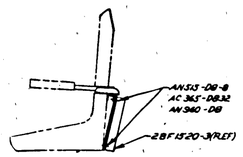
-10	SUB-ASS'Y										

Q7102-A416					8	8					
Q612-08-3					4	4					

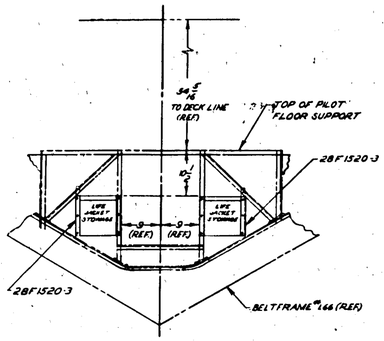
AN 960-D10					4	4					
AN 380-2-2					4	4					
AN 425-D5					4	4					
AN 310-4					2	2					
AN 24-11											

-8	10-32 x 1" (NOT COUNTERSUNK)		AN 503-632-8	4	4						

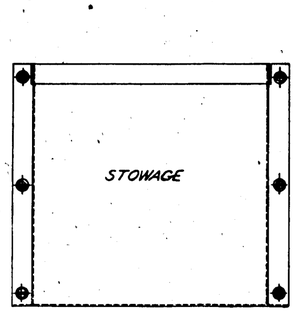
-7	SUB-ASS'Y			/	/						
-8	SUB-ASS'Y			/	/						
-11	SUB-ASS'Y			/	/	1	1				
-10	SUB-ASS'Y			/	/	1	1



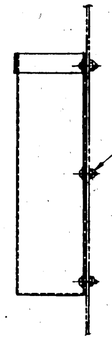
SIDE VIEW PILOT'S SEAT SHOWING LIFE JACKET STOWAGE. NO SCALE



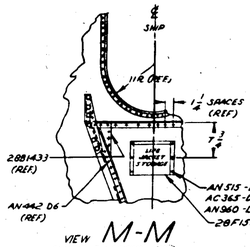
VIEW D-D
LOOKING FWD
-0, -30, -40 & -56 ASS'YS ONLY



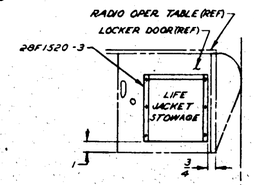
TYPICAL METHOD OF ATTACHING POCKETS
6"=1'0"



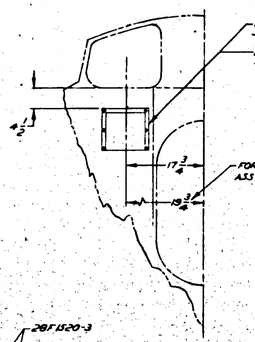
MET.	ALTERATION	DATE	BY
AP	TRACED AD WK CHG.	7-24-56	
BB	CAPABILITY ASSY. 206 PER ECA "CHG NO. 1144 ECO		
	CONSISTS OF 2-coat nylon W/NAVY ECO 1144 ECO AC-4106		
	3 REQD W/-30 & -40 ASS'YS ONLY		
	4 REQD W/-50 & -70 ASS'YS ONLY AC-4106		
	3 REQD W/-80 ASS'Y AC-4106		
	3 REQD W/-0 ASS'Y AC-4106		
	3 REQD W/-56 ASS'Y AC-4106		
	SHOWN LOOKING AFT ON -80 ASS'Y REVISED NOTE & DETAIL ADDED	8-8-56	BB & BB
	ADDED FOR -56 ASS'Y & AFT		
	LIFTED -56 ASS'Y TO 30 STYLE		
	ACTION Removal Necessary ON THIS PANEL AFFECTED WHEN CALLED OUT ON ASS'Y	9-17-57	
AH			



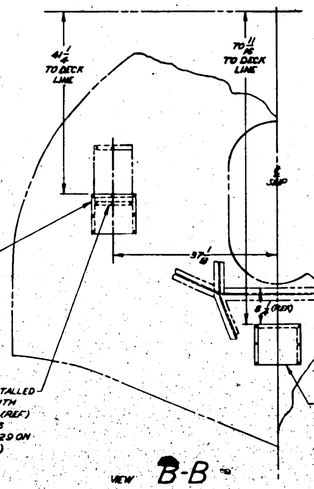
VIEW M-M
BLK'HD 2 LOOKING FWD
FOR -69 ASS'Y
NO SCALE



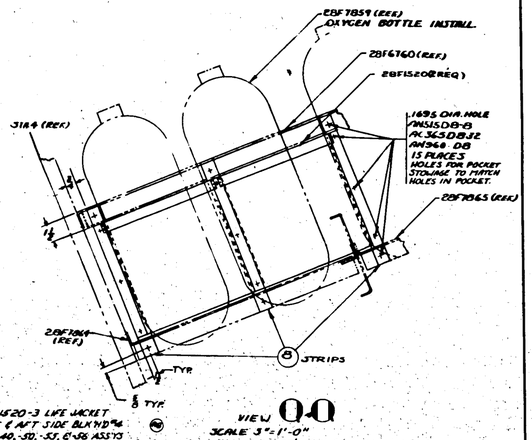
VIEW H-H
LOOKING OUTBD STARBD SIDE
-58, -60, -69 -70 & -80 ASS'YS
NO SCALE



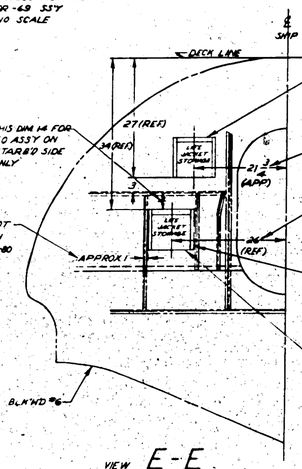
VIEW C-C
LOOKING FWD



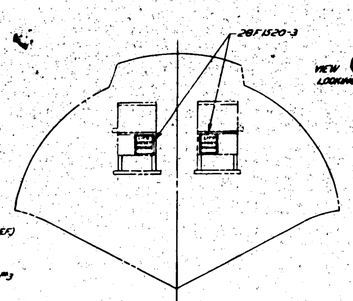
VIEW B-B



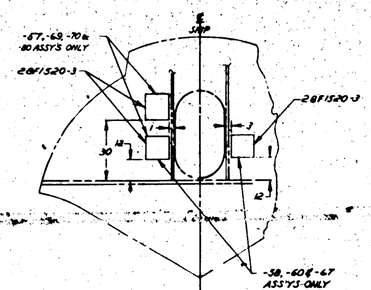
VIEW Q-Q
SCALE 3"=1'-0"
-80 ASS'Y ONLY



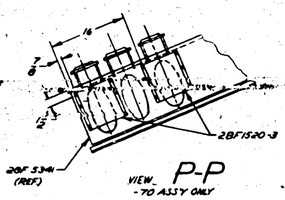
VIEW E-E
LOOKING FWD



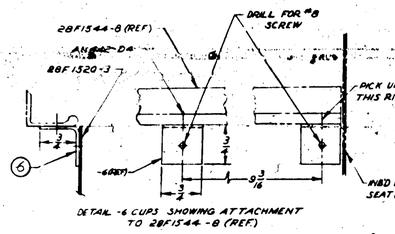
VIEW F-F
LOOKING FWD
FROM BLK'HD #2
-30 & -55 ASS'YS ONLY
NO SCALE



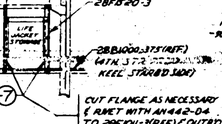
VIEW J-J
LOOKING AFT
NO SCALE



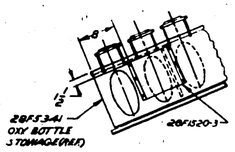
VIEW P-P
-70 ASS'Y ONLY



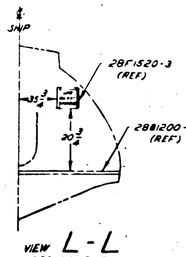
DETAIL -6 CUPS SHOWING ATTACHMENT TO 28F1544-8 (REF)



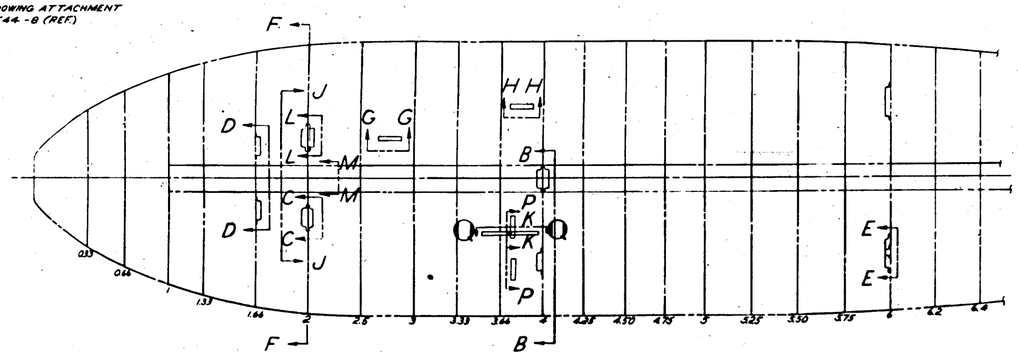
VIEW G-G
LOOKING OUTBD STARBD SIDE
-50 & -58 ASS'YS



VIEW K-K
-57 & -69 ASS'Y



VIEW L-L
LOOKING FWD
STARB'D SIDE BLK'HD #2
-58 ASS'Y ONLY
NO SCALE



| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
J	TRACED UP TO DATE	5-16-38	
K	Q908A8-8 WAS Q908A12-6	9-28-38	
L	ELIMINATED HOLES WERE ABOVE	—	
M	E.O. 10005A PT. AN 515-D8-3 WAS AN 515-D8-2½ SCREW E.O. 10874 N CHANGED 28F218-10 FROM 132 TO 19 "L.G. E.O. 22192 P AN515-D8-3 WAS AN515-D8-2½ SCREW AN515-D8-10 WAS AN515-D8-7½ SCREW AN960-D8½ ADDED	9-27-38 10-26-38	

(15) (14) (13) (12) (11)

℄ WING SPLICE

A — B

85⅞ — 76⅛ — 7¾

NAF 310503-100
28F2199-2 - SINGLE
28F2199-3 - DOUBLE
NAF 213690-100
NAF 27842-1
FOR PBY-2, 3&4

NAF 310503-100
28F2199-3 DOUBLE
28F2199-2 SINGLE
NAF 213690-100
NAF 27842-1
FOR PBY-1 ONLY

(REF) 1⅛ — ⅜

(2) LH (3) RH — (4) LH (5) RH — FOR PBY-2, 3&4

GOODRICH RUBBER BUTTONS - 1 IN EACH HOLE

NAF 213690-100
NAF 27842-1
NAF 218631-100
28F2199-2

℄ PARALLEL TO WING CHORD

⅜ NOTE THIS DIMENSION MUST BE HELD

(REF) 1⅛ — ⅝ — (10)

(2) LH (3) RH — (4) LH (5) RH — (M)

FOR PBY-1 ONLY, REVERSE POSITION OF LINES AND END FITTINGS

A — B

28F2199-2 (REF)

28F2199-3 (REF)

VIEW A-A
FOR PBY-1 ONLY
(M)

Q306-A8-4
AN456-D8-8 (P)
AC936-88
AN960A8
AC365F-D832

AN320-8-12
AN345-8
AC936-88
AN960-A8
Q908-A-10-8 (R)
(1⅛ I.D.)

REMOVE FINISH FROM MINIMUM OF 3 EDGES IN CONTACT WITH CLIP

CHORD LINE

3 3/32 — 1 31/32 — 2 15/32

VIEW A-A FOR PBY-2 3&4
SHOWING CLIPPING & BONDING AT STA 'N' AND TYPICAL INSTALL OF DE-ICER TUBES

DIMENSIONS ARE BEFORE COUNTERSINKING

3/16 — 1 3/8 — 5½ — 1¼ — 2 11/16

DRILL "30 (128)

AC936-88
AN960-A8
AN515-D8-10
AC365-D832 (P)

Q908A-10-8

VIEW B-B
SHOWING LOCATION OF TUBING AT STA 11 & BONDING AT STA 'N' 12 18

GENERAL NOTES:

MATERIAL USED FOR BONDING SHALL CONFORM TO NAVY SPEC. AS LISTED IN PAR F-1 OF SPEC. SR-160.

USE PARKER THREAD LUBE 6PE OR EQUIVALENT ON ALL DURAL THREADS.

FINISH TUBES OUTSIDE Z-P-2 FITTINGS CLIPS STANDARD PARTS P-2 P

EACH SECTION OF TUBING SHALL BE MARKED WITH A LIGHT BLUE & LIGHT GREEN STRIPE NEAR EACH END

ALL BONDING TO BE IN ACCORDANCE WITH BONDING DIAGRAM 28E1192.

USE FRICTION TAPE UNDER ALL HOSE CLAMPS.

⅜ I.D. GOODRICH DE-ICER HOSE

PART	APPROX LENGTH	REQ L	REQ R
-10	18	1	1

⅜ OD .042 AL ALLOY TUBING SPEC. M-7307A COND'N A ALLOY 3S0

PART	APPROX LENGTH	REQ L	REQ R
-2	76	1	
-3	76		1
-4	78	1	
-5	78		1

GOODRICH RUBBER BUTTONS 1/2

FINISH CODE

A	
P	
AP	
M	

| | | |

PRICK PUNCH FOUR PLACES

45°(APPROX)

11 DETAIL SCALE: 6"=1'-0"

PRICK PUNCH FOUR PLACES

45°(APPROX)

12 DETAIL SCALE: 6"=1'-0"

-11, Y-6-A26T X 16 3/0, FINISH: Z-P-2GP.
-12, Y-0-A26T A 19 3/8, FINISH: Z-P-2GP.

LET	ALTERATION	DATE	BY
M	TRACED	24/10/50	WHEELER
N	VAR. FR. -6270 - AMER. 28F1201-11, 28F1202-11	3-30-51	Wheeler
O	-5 REMOVED FROM -9&-10 ASS'YS	11-1-51	Wheeler
P	REMOVED 28-SME REQ. ON DWG B.M. 07000-AL17-.032 ALCLAD	3-28-52	Wheeler
Q	WAS AN960-416 (5/SHIP)	4-15-52	PEABODY
R	AN3004, AN960-D10 2 PLACES WAS AN442-D8 2 PLACES AN3004A, AN960-D10, AC365-D832 WAS AN442-D8, AN 3004, AN960-D10 WAS AN442-D5 IN B.M. AN442-D5 WAS ALMOVER AN3004A(C), AN 365-D832(C)		
S	AN-360-D1024 WAS ADDED	9-24-41	PEABODY
T	ADDED -15 & -16 CREATED -55 ASS'Y, NOTE "-11, Y-6-A26T X 16 3/0" FINISH: Z-P-2GP" WAS "T X 3/0 X .070 AL ALLOY EXT. ALCOA DIE "KIESER, SPEC. 4-BAB COND T FINISH: Z-P-2AL." WT. CHG. INC.	9-23-52	Peabody

SUPPLIER & EQUIPMENT CLASSIFICATION

STA°500 STA°525 STA°550 STA°575 STA°600

SEE DETAIL 'A' SEE DETAIL 'B' SEE DETAIL 'C'

28F203-1 LOWER FRAME

28F201-20 UPPER COVER

28F201-1 LOWER COVER

8 APPROX.

10 1/2 APPROX

3 5/8 DIA. 25" LONG LACING CORD. 2 REQ'D FOR LACING FRAME TO BUNK COVER

SHIP

PLAN AND END VIEW
SCALE: 1 1/2"=1'-0"

28F203-10 UPPER FRAME

SEE DETAIL 'E'

DECK LINE

STRINGER °667

STA °525

STA °550

STA °575

STRINGER °669

BASE LINE

STRINGER °611

STRINGER °609

STRINGER °607

SEE DETAIL 'F' FOR INSTALLN OF -9 -10 -15 (5)

STRAP AT °525&575

SEE DETAIL 'G' FOR LEG INSTALL

40°

SEE DETAIL 'H'

39 3/8

20 1/2

Q5702-K12 APPROX. 54" LONG DETERMINE LENGTH ON ASS'Y

1/16 x 1 1/2 STEEL LOOP °390 PURCHASE FROM NORTH AND JUDD FINISH CAD. PLATE

TURN 10° LOOP IN STRAP INSERT STEEL LOOP AND SEW INTO PLACE

13 SUB ASS'Y

DETAIL 'H'
SCALE: 12"=1'-0"

SHOWING ATTACHING METHOD FOR SUPPORT STRAPS TOP BUNK STA. 525&575 SEE SECTION A-A FOR OTHER END.

28B1325-50
28B1550-22
28B1575-18

TO DECK LINE

28F3109-2

AN3004A AN960-D10 AC365-D1032 2 PLACES LOCATE FROM 22F040-1

39 3/8 (REF)

FOR STA°525&575
FOR STA°550

DETAIL 'E'
SCALE: 12"=1'-0"

SHOWING ATTACHMENT OF UPPER BUNK TO FRAMES °530 & °575. FOR STA. 525 REVERSE 22F040-14-2.

59 3/8 (REF) TO DECK LINE

51 13/16 TO ℄ SHIP

11

A AN3004A AN960-D10 AC365-D832 2 PLACES

45°

FRAME °550

APPROX 3/4

AN520-D10-8 AC365-D1032 4 PLACES

28F3109-6

D

DETAIL 'B'
SCALE 6"=1'-0"

SHOWING LOWER BUNK ATTACHMENT AT FRAME °550

28B1525-5

12

28B1525-6

SECTION E-E
SCALE 12"=1'-0"

28B1550-4 (REF)

28B1550-6 (REF)

SECTION D-D
SCALE 12"=1'-0"

59 3/8 (REF) TO DECK LINE

51 13/16 TO ℄ SHIP

AN520-D10-8 AC365-D1032 4 PLACES

FRAME °525

APPROX 3/4

28F3109-8

E

45°

AN3004A AN960-D10 AC365-D832 2 PLACES

DETAIL 'A'
SCALE 6"=1'-0"

SHOWING LOWER BUNK ATTACHMENT AT FRAME °525.

59 3/8 (REF) TO DECK LINE

51 13/16 TO ℄ SHIP

28F3109-4

C

DETAIL 'C'
SCALE: 12"=1'-0"

SHOWING LOWER BUNK ATTACHMENT AT FRAME °575

A AN3004A AN960-D10 AC365-D832 2 PLACES

FORWARD

28B1575-4 FRONT
28B1575-6 REAR

SECTION C-C
SCALE: 12"=1'-0"

AN520-D10-8 AC365-D1032 3 PLACES THRU STRINGERS

AN520-D10-14 AC365-D1032 2 PLACES LOCATE ON ASS'Y.

.064 x 2 x 1 1/2 AL ALLOY SPEC: 47A10 COND. T. FINISH: Z-P-2GP

1 11/16 x 1/8 x 110" AL ALLOY EXT. BULB ALCOA-K-1298 SPEC 46A9 COND T FIN. Z-P-2GP

5 3/4

59 3/8 R

STRAP - SEE DETAIL 'H'

SECTION A-A
SCALE: 12"=1'-0"

SHOWING STRAP ATTACHED TO STRINGER

DETAIL 'F'
SCALE: 6"=1'-0"

SHOWING ATTACHING -9 -10 -15 TO STRINGERS & FRAMES

SPACE RIVETS 2" APART AN442-D4 EXCEPT AS OTHERWISE NOTED

USE AN442-D5 7 PLACES

9

PICK UP RIVET ALREADY ON STRINGER °607

AN442-D5 3 PLACES

34 7/8 FOR -10

28 1/8 FOR -15

37 1/8

STA °500 STA °525 STA °550 STA °575 STA °600

TRIM -9 AS NEEDED TO CLEAR HATCH LATCH POST

6" APPROX

DETAIL OF -9 -10 -15
SCALE: 12"=1'-0"
.031 AL ALLOY SHEET
SPEC: 47A10 COND T

6 7 8 3/4 x .035 AL ALLOY TUBE -175 SPEC 44T21 COND T FINISH: Z-P-2GP INSIDE & OUT.

NOTES:
1. BUNKS ARE PARALLEL, AND TOP BUNK IS PARALLEL TO SKIN LINE.
2. REAM BEARING BRACKETS FOR BEARING FIT WITH BUNK TUBE AFTER ASSY OF BEARINGS
3. TO REDUCE COST OF INSTALL. -9&-10, -15 MAY BE INSTALLED PRIOR TO ATTACH OF HULL PLATING.

GP = GREEN PRIMER

FINISH CODE	
	BARE (TREATED)
	A-17 PRIMER
A/P	ALUMINIZED PRIMER
	CADMIUM PLATE

DRILL & REAM .250±.001 LOCATE FROM 22F361 AN 394-31 Q 7008-AL17-.032 AN 380-2-2

DRILL & REAM .250±.001 LOCATE ON ASS'Y AN 394-37 AN 960-416 AN 380-2-2

FLATTEN TUBE TO 3/8

40°

AN3004 AN960 D10 AC365 D1032 2 PLACES

°667 (REF)

°669 (REF)

28F021-7
28F021-12
LOCATE FROM LEGS

DETAIL 'G'
SCALE: 6"=1'-0"

LEG INSTALLATION AT STA'S 525, 550, & 575

3 STA. 525-24 LONG APPROX
7 STA. 550-22 " "
8 STA. 575-20 " "
DETERMINE LENGTH ON ASSEMBLY.

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
G	PLACED U/P TO DATE	4-8-37	
H	ADDED DETAIL F (REF) 28-15	4-28-37	
J	DRILLED (REF) HOLE 5/16 DIA.		
K	ADDED NOTE 1 (-20 ASSY ONLY) PER 47-7-2	5-20-37	
L	ADDED STOWAGE OF 28D0971	10-15-37	
	LOWER SLOT COVER		
M	MADE -20 ASSY REVERSE		
N	ON PART 2	1-20-38	
P	OMIT AN442D6		
	ADD AN426-D1032-12(2) AND AC365-D1032(2) 2 PLACES	4-11-38	
	AN426-D1032-8 (2) "		
R	ADDED 2 1/4 DIM. FROM BULKHEAD #1 ON VIEW D-D	4-11-38	
S	ADD ATTACH. NOTES & DIMS.	4-14-38	
T	ADD -15 WASHERED SLOT COVER SPLICE	4-15-38	
U	ON FACE OF DWG & SHL. -11		
	AN515-D8-7(3), AN515-D8-12(3), AC365-D1032(6) DETAIL F (REF)	5-17-38	
V	ON DRWG & SHL REMOVED -58	5-18-38	
	ASSY FOR 58-SHL CREATED -57 ASSY FOR 58-SHL LOWER		
	TO -20 ASSY EXCEPT 28F1571-0		
Q	REPLACED 28F1511-2		
W	ADDED -60A NOTE "-60 ASSY---"		
	ONLY WITCHCRAFT	5-24-38	
X	1/8 DIA. HOLES (REF) "D" & "E"		
	0" (AND 330) AT AC393-1, AC23-8, 6 & 0"-135, 0"-60, 1" & 0"-150, 2" & ADDL "SEE NOTE" 1" OF FACE REVISED		
	CALLOUT AC225-1 WITH NOTE "(AND 135, 0"-60, 1" & 0"-150, 2" & ADDL" REVISED		
	CALLOUT AC225-8 WITH NOTE "(AND 0"-22, OR AC225-8 " AT 87, 0" & 0"-135)"	9-29-41	MAJOR

BULKHEAD "1"
Q5795K1-12 BRACES

Q5799-6 (P)
AC525-D1032-12
AC365-D1032
2 PLACES

Q5706K1-3 2 PLACES

Q5799-6 (P)
AN526-D1032-8
AC365-D1032
2 PLACES

FORWARD

SECTION A A
SCALE 12"=1'0"

28B2009 (REF)
DRILL "13 (.184)
QC4105-36
AN515D8-24
AC365D832

(Z) 28B4057 LOWER SLOT COVER (REF.)

(Q) 3/16 x 2 1/16 x 0'-9 1/16 AL. ALLOY EXT. 293 ALCOA DIE "KC390 SPEC. 96A9 COND. T.

28F1571-2 LOCATE ON STR "101 FOR -30 ASSY

6 1/2 * (S)

STRINGER "243 (REF)

ANGLE 09

(J) DRILL "19 (.166) AN515D8-6 AC365D832

STRINGER "101 (REF)
STRINGER "69 (REF)
STRINGER "165 (REF)

(S) * LOCATE ON STR * 164 FOR -30 ASSY

(BULKHEAD "1"

28U1047 (REF)

28F5237 (REF)

LOCATE ON STR "173 FOR -30 ASSY.

28F1572 (REF)

STRINGER "167 (REF)
STRINGER "43 (REF)
STRINGER "71 (REF)
BULKHEAD "1"

6 1/2 * 7/8 (S)

℄ BF "130

℄ HULL

Q5796K1-14 (REF) FOR ATTACHMENT SEE DETAIL E

ROUND & 3/4000 OFF CORNER

SLIP SMALL CLIP (OF 28B4057) UNDER HANDLE OF 28B134C (REF)

T251-S 80.32040

FS515 80.33584 80.33572

FS515-4 PATTERN

FS515-5 PATTERN

STRINGER 8.12 (REF.)

STRINGER 8.123 (REF.)

2 1/4 MAX. (REF'S ONLY) (R)

(T) 2 ANGLE 2937 ALCOA DIE
(U) K 9068 SPEC. 96A9 COND. T.
(V) FWD ASSY'S
(W) AFT ASSY'S

STRINGER "237 (REF)

VIEW D D

Q5706K1-16 CENTER BETWEEN -6 & -7
Q5799-6
AN515D8-6
AC365D1032
DRILL "10 (.193)

DRILL "10 (.193)
AN515D10-6
AC365D1032
Q5799-6

STRINGER "170 (REF)
K5796K1-14
NOTE:
LOCATE THIS ATTACHMENT VERTICALLY IN LINE WITH Q5706-K1-16 ATTACHMENT

DETAIL E

28F1571-2
28F1571-0
(V)

28F1570 (REF)
(-3) (REF)
USED ON 28"-20% ASS'Y ONLY
(K)

DRILL "28 (.140)
AN515D8-12
AC365-D632
(6 REQD PER SHIP)

SCALE 12"=1'0"
TYPICAL MOUNTING OF 28F1572 FOR ASSYS -0 & -30 OF 28F1571 FOR -0, -20, -30 & -57
(V)

Q5748-K1-8 (FOR -0, 20, 60) (V)
Q5748-K1-11 FOR -30
Q1601-55, Q1601-16 OR AC225-4
LOCATE UPON ASSEMBLY
DRILL "13 (.166) Q1601-22 OR AC225-6
(J)
AC365-D832

(2) 1 1/2 x 9/16 AL ALLOY EXT. 293, 3/4 LONG, ALCOA DIE "KC787 SPEC. 96A9 COND. T.
DRILL "10 (.193)
AN520D10-10
AC365D1032
STRINGER "#" 167 (REF)

SECTION B B
SCALE 12"=1'0"

℄ BF "130

℄ HULL

(11) (REF)

NOTE:
(S)
* TO BE USED ON -30 ASSY ONLY
** STD. PARTS REQ'S. SAME AS -20

(U) AN515-D8-12 (3) (REF)
AC365-D832 (3) (REF)

NOTE
-2 IS IDENTICAL TO 28F1562-4
-3 IS IDENTICAL TO 28F1562-6

FINISH -2, -3, -6, -7 #-8 EP-BAL

-60 ASSY TO CONSIST OF BUOY HOOK STOWAGE ONLY.
(W)

28F1570

(-3) 1 1/2 x 9/16 AL ALLOY EXT. 293, 1" LONG ALCOA DIE "KC787 SPEC. 96A9 COND. T.

ON 28F2076 ASS'Y ONLY
DRILL "19 (.166)
AC515D8-8
AC365D832
8 PLACES

SECTION E E
SCALE 12"=1'0"
(R) USED ON 28F2076 ASS'Y ONLY

(2) (REF) 28F1572

(H) .072 x 2 1/2 x 2 1/2 ALCLAD 24ST

(U) AN515D8-7
AC365-D832
(3 REQD)

DETAIL F SCALE 12"=1'0"
TYPICAL MOUNTING OF 28F1572 FOR -20 & -50 & -57 ASSY
(V)

STARBOARD SIDE VIEW FORWARD

| | | |

DRILL #10(.193) DIA. 4 PLACES

Q.7012-D10-.031

CUT ALL OUTSTANDING FLANGES AT 90° EXCEPT AS NOTED

DRILL #10(.193)

NOTE:
ALL SHEETS TO BE ANODIZED

MATERIAL:
1/16 x 1 1/2 x 90in. AL ALLOY SHT. ANOT. ALCOA 24 SHT SPEC 7E49 COND T ⊢ -A-3
1/32 x 3in. AL ALLOY SHT ANOT ALCOA [illegible] ⊢ -A-2
1/16 x 10TO AL ALLOY EXT. ANOT. ALCOA 24ST 11ANS SPEC 7E49 COND T. ⊢ -10-11-12-13-14-15-16
3/16 x 3/16 x 1/16 AL ALLOY EXT ANOT ALCOA 24ST EXTRU SPEC 7E49 COND T ⊢ -17-E-18-

FINISH CODE
C ALOD TREATMENT
D PAINTING
[illegible]

SUPPLIES & EQUIPMENT CLASSIFICATION					
LIST	ALTERATION	DATE	BY	CHK	
C	TRACED				

| | | | | |

DETAIL "C"

DRILL #18 (.169) 3 HOLE

ON -32 ADD
AC366-DF832
AN526-8832-10
A7008-M10-C64

286A0967 SWITCH BOX ON -30
286A0967-55 ON -55 ASSY
286A0967-10 ON -56 ASSY
286A0967-65 ON -57 ASSY
286A0967-60 ON -60 ASSY
286A0961-2 ON -61 ASSY
286A0961-3 ON -62 ASSY

MAKE FROM Y-5AAST

DRILL #18(.169) 4 HOLES

.064 PANEL (REMOVEABLE)

BEND THIS EDGE ON 286A0939-2 IF NECESSARY

AN442D4 RIVET - 6 REQ'D TO 286A2047 AND -5 ANGLE

MAKE FROM Y-2A2BT

.064 AL ALLOY SHT

MAKE FROM Y-2A2BT

MAKE FROM Y-2A2BT

.064 PANEL (REMOVEABLE)

ALL REMOVE

DETAIL "A" 286A0936-11 ALCLAD

MAKE FROM Y-5AAST

DRILL #18 (.169) 56 HOLES

2 DIA INSTR. HOLES

DRILL #18 (.169) 2 HOLES REQ

SEE DETAIL "A"

MAKE FROM Y-5AAST

.064 AL ALLOY PANEL (REMOVEABLE)

CUTOUT & SCREW HOLES IDENTICAL WITH ALTIMETER CUTOUT ON DETAIL "C": -33 ASS'Y ONLY.

SAME AS -10 EXCEPT FOR NOTED CHANGE IN END INSTRU. HOLES FOR -33 ASS'Y

DRILL #20 (.136) THRU C'SINK 110° ±2°
TAP 8-32 N.F-3 THD
2 PLACES

DRILL #41 (.096) 2 HOLES

DETAIL -27
SCALE 3/1

125 CHROME MOLY STEEL SH'T.
SPEC. 47514
FINISH - C-2 P
H.T. - NONE

SAME AS -14 EXCEPT OMITTING INSTR. HOLE & INSTR. SCREW HOLES

NOTES

USE AN23 D4 RIVETS IN FRONT FACE OF PANEL
AN 442 D4 ELSEWHERE
AN 435 D3 IN ELASTIC STOP NUTS

FINISH: 2-P ALL OVER - 2 BAC OUTSIDE & BOX ASPHALT VARNISH INSIDE BOXES

MATERIAL:
-10, -11, -12, -14, -15, -18, -19, -20, -21, -23, -24 SPEC. 47AND COND. "T" (ALLOY 24S)
-22, -26, -29, -32, -33, -28
-6 SPEC. 47AR-T ALCLAD
-3, -13, -34 SPEC. 46A3 COND. "T" (ALLOY 24S)

IDENTICAL WITH -8 EXCEPT FOR CUTOUT

E.O. A92309
E.O. A95270

DETAIL "B"

2 PILLS (RED) - 56 REQ'D
NOT USED ON -60 ASS'Y

.064 PANEL (REMOVABLE)

.064 PANEL - IDENTICAL WITH -8 EXCEPT FOR CUTOUTS

NOTE: ON -61 ASS'Y ONLY, DO NOT COUNT OR MAKE AN442-D4 AT LOCATIONS

286A1059-2
AN425-D3

AN442-D4

DRILL 2 HOLES IN PANEL

MAKE -13 FROM Y6-AST .040

AN425-D4 C'SINK IN FRONT FACE OF PANEL

286A0937-16 (REQ) FOR -57 ASS'Y ONLY

CUT BUTT SIDE 6 REQ'D SYMMETRICALLY ALSO -60 REQ'D

.064 AL ALLOY SHT

AN425-D3 CUT ON BACK SIDE ALSO

MS516-10-2
AN960-10
AN935-10
MP954-10

NUT PLATE FOR -30 & -42 ASS'YS ONLY
AC366-DF832
AN425-D3

LOCATIONS MUST COINCIDE WITH HOLES IN RANGE SHOWN IN DRAWING

TO INSIDE OF BOX

SEE DETAIL "C" FOR SCREW HOLES & CUTOUT FOR -57, -56, -61, -62, -57 & -60 ASS'Y.

OMIT THIS INSTR & SCREW HOLE FOR -26 ONLY

OMIT THIS INSTR & SCREW HOLE FOR -26 ONLY

AC366-DF832
AN425-D3
AN515-8D8-10

DRILL 4 2 HOLES

AC366-DF832
AN616-D8-8

AN442-D4

AN515-D8-8
AC366-DF832
AN960-D8

286F5086

AN442-D4

BUTT JOINTS TO BE SNUG FIT

286F5086(REQ) THIS SECTION OF PANEL REMOVEABLE

AN442-D4

AN515-D8-8
AN935-8
AN960-D8

SAME AS -10 EXCEPT OMIT INSTR. & INSTR. SCREW HOLES ARE OPTIFIED

.064 PANEL (REMOVABLE)

CUTOUT & SCREW HOLES IDENTICAL WITH ALTIMETER CUTOUT ON DETAIL "C": -33-64-65-62, -58-38-A533C

.064 PANEL (REMOVABLE)

MAKE FROM Y-2-A12T

MAKE FROM Y-5AAST

FINISH CODE

AS PER NEXT ASSY

SUPPLIES / EQUIPMENT CLASSIFICATION			
LET	NOTATION	DATE	BY
AM	PHOTO ETCHED	12-3-54	WHP
AN	ADD FOR -60 ASS'Y		
AP	WAS -10 ASS'Y NOW -60 ASS'Y	12-3-54	NICKERSON
AT	SAW WELD AT DETAIL "B" WAS RIVETED		
	-10 & -60 ASS'Y MATERIAL WAS STATED CONDITION		
	WT. CHANGE	4-9-55	NICKERSON
AX	ON FACE, MATERIAL UNDER 1/8"		
	ADDITIONAL FOR 3-32 A 3-56		
	ADD FOR 3-56 & 4-40		
	ADD FOR 4-40 & 6-32		
	ADD FOR 6-32 & 8-32		
	ADD FOR 8-32 & 10-32		
	ADD FOR 10-32 & 1/4-28		
	ADD FOR 1/4-28 & 5/16-24		
	ADD FOR 5/16-24 & 3/8-24		
	ADD FOR 3/8-24 & 7/16-20		
	ADD FOR 7/16-20 & 1/2-20		
	ADD FOR 1/2-20 & 9/16-18		
	ADD FOR 9/16-18 & 5/8-18		
	ADD FOR 5/8-18 & 3/4-16		
	ADD FOR 3/4-16 & 7/8-14		
	ADD FOR 7/8-14 & 1"-14		
	ADD FOR 1"-14 & 1 1/4-12		
	ADD FOR 1 1/4-12 & 1 1/2-12		
	ADD FOR 1 1/2-12 & 2"-12		
	ADD FOR 2"-12 & 2 1/2-8		
	ADD FOR 2 1/2-8 & 3"-8		
	ADD FOR 3"-8 & 3 1/2-8		
	ADD FOR 3 1/2-8 & 4"-8		
	ADD FOR 4"-8 & 4 1/2-8		
	ADD FOR 4 1/2-8 & 5"-8		
	ADD FOR 5"-8 &

LET	ALTERATION	DATE	BY
M	TRACED	8-2-43	
Q	REMOVED -15 ; ANIE-8-7		
	WAS 8 REQ. AC 365-832		
	WAS 10 REQ.	4-4-44	
P	ADDED -15 & STRUCK V.NW 28-0		
	-16 7½ WAS 12 7/8		
Q	ADDED -2 ASSY ; NO WT CHG.		
R	-20 ASSY WAS -2 ASSY	5-10-45	

C.A. 7212
E.O. 63541 A
SANS/2221

SUPPLIES & EQUIPMENT CLASSIFICATION

DRILL #18 (.170) 2 HOLES THRU -26 STRINGER AT H137.

DETAIL -2
.040 AL. ALLOY 24ST 24ST SPEC 47A10 (CONT'D.)
SCALE 12"=1'-0"

$\frac{3}{4}$x$\frac{3}{4}$x$\frac{1}{16}$ GUARD — PART-4 — JOHN

B-B
SCALE 12"=1'-0"

$\frac{3}{4}$x$\frac{3}{4}$ ANGLE (REF) — TO ℄ HULL — (REF) SCREW AN515-8-7 NUT AC365-832

$\frac{1}{16}$ CABLE — HOLD THIS DIM AT BOTH ENDS OF ALL ANGLE GUARDS

DETAIL A
TYPICAL INST. OF ANGLE GUARD TO ANGLE ON STRINGER
SCALE 12"=1'-0"

DRILL #18 (170) — EBC5044-9 FOR -20 ASSY ONLY — -10 (REF) (FOR -10 ASSY ONLY)

D-D
12"=1'-0"

-9 — CABLE

E-E
12"=1'-0"

SCREW AN505-8-7 (REF) — -7 — (REF) 28F2162

DETAIL F
SCALE 12"=1'-0"

-16 .064 AL ALLOY 24 ST SPEC 47A10 — AN442DS RIVETS

VIEW GG
SCALE 12"=1'-0"

AN442-D4 RIVET — (4) PLATE (SEE B-B) — NUT AC365-832 — SCREW AN515-8-7 — GUARD ASSY — (3) — (5) ANGLE K5801 24ST $\frac{3}{4}$x$\frac{3}{4}$x$\frac{1}{16}$ 4GA9 $13\frac{29}{32}$ LONG

(14) Z SECTION MATL 24ST .032 x .781 LONG — 7½ LG SPEC 4GA9 — AN442DS RIVET — -16 Ø

EBC5044-9 FOR -20 ASSY ONLY — AN515-8-7 — AC365-832 — (10) FOR -10 ASSY ONLY — CLIP .064 SHEET 24ST SPEC 47A10 — RIVET AN442-DS

28B1039 (REF) — SEE DETAIL C — ℄ CABLE (REF) — 28B1066 (REF)

(2) PLATE — SEE DETAIL — AN515-8-7 SCREW — AC365-832 NUT

Note: ADJUST -16 LOCATION TO KEEP HORIZONTAL FACE OF -16 APPROX 3/16 FROM CABLE.

28F2164 (REF) — SEE DETAIL A — NUT AC365-832 — SCREW AN515-8-7 — (6) $\frac{3}{4}$x$\frac{3}{4}$x$\frac{1}{16}$ ANGLE K5801 4GA9 24ST — INSTALL REAR END OF -6 ON TOP OF ANGLE 28C2117-2 — 28C2117-2 (REF) — 28B1100 (REF) — ℄ CABLE (REF)

NOTE:— FOR REMACHINING OF CAST ENDPIECE SEE 10 MOTOR GUARD SEE DWG 28C2117 (REF)

SCREW HEAD AT THIS LOCATION TO BE ON OPPOSITE SIDE OF GUARD FROM CABLE. END OF SCREW MUST CLEAR CABLE

℄ CABLE (REF)

28F2161 (REF) — SCREW AN525-8-6 AC365-832 NUT — (7) GUARD ASSY — (8) GUARD — ANGLE K5801 24ST — (4) PLATE — .051 AL ALLOY 24ST SPEC 47A10 SEE B-B — AN442-04 RIVET — SCREW AN505-8-7 NUT AC365-832 — 28F2163 (REF) — SEE DETAIL F

L.H. SIDE VIEW
SCALE 6"=1'-0"

REAR VIEW
SCALE 6"=1'-0"

(REF) 6 — (REF) 7

DETAIL C
SCALE 12"=1'-0"

H 292

C#91876	-10	PBY-5	28F4108	AN525-8	1
	-19	PBY-5A	28F4113	AN366-8D	1
C#91876	-16	PBY-5	28F4103	AN525-8-6	1
C#91876 & ON	-20	PBM-5	28F2158	AN505-8-5	1
	-20	PBY-5A	28F4108	AN442-DS	2
C#70496	-10	PBY-5	28F2150	AN525-8-7	1
	-10	PBY-5	28F2162	AN442-D6	2
	-10	PBY-5	28F2163	AC365-832	3
	-10	PBY-5	28F2169	AN525-8-7	1

| | | | | |

SYMBOL	WT	DESCRIPTION AND SUPPLEMENTARY REMARKS AND OTHER INFORMATION
ER 7455	AN	REMOVED AN3302-2-2 (1)
		W-374-1038 (10) REPLACES MS16 -8 (18) (WT CHG NEG.)
10 REVISED	AB	CREATED -39 ASSY FOR 28-374
		ADDED PART NO. AC372B1032-10 WT CHG NEG.
		-39 ASY 28F3030-2 REMOVES 28F2083-20, ADDED 6 TK NUTS
		-37 WAS -35 - 20 FT LOOPS
REMARKS	AC	CREATED -76 ASSY FOR PBY-5A W -76 ASSY'S DWG ADDED
		ADDED AN3520-10-30 (3 REQ) AC365-1032 (3 REQ) (WT CHG +.1#)
		-76 (5 REQ.) WT CHG +.4#
REVISED	AR	ADDED TYPE C-3 COMPASS MOUNT
		-21D STA 0.0 DIR. 45½ RIGHT
		DIRECTION FROM STA 0.0 TO STA 45½ RIGHT
		FOR PBY-5A ONLY WT CHG +.7#
28A51248-1	AS	ADDED DETAIL OF -28 ASSY (1 REQ)
		NOTE: AN FOR PBY-5 ONLY
		AN428-2 MAC 572-1032 (2)
		AN960-10 (1) AN3-4A (1) AC372-1032 (2)
PER 41717-41	AT	ADDED TYPE C-3 COMPASS MOUNT
		(1) -21D (1) 28A1248-1 REQUIRED
		DIRECTION FROM STA 0.0 TO STA 45½ RIGHT
ER 45634		PBY-5A WT CHG +.7#
	AU	CREATED -80 ASSY FOR PBY-5A
		-81 FROM -85 ASSY FOR PBY-5A
ER 46199	AV	PBY5B (51) ON WT CHG NEG.
		(8) VIS W LOCKING GUIDE
		AN515-8-8(2) AC365-0832 (2)
		WAS AN426AD-8 D7 WT CHG NEG.
ER 48970	AW	CHG "(10-193) 3 HOLES WAS "(5.1-93) 3 HOLES WT CHG NEG.
ER 47826	AX	TO FACE F RDM ADDED -22 ASSY, DWG'S F AC 365 D032 FOR -76 F ASSY'S ADDED AC RIVETS AN426AD-8-31 DETAIL -5 E -5 FRAME ASSY WT CHG NEG.
E.O. 85340	AY	TO FACE RADIUS NOTE #2 IN RDM E ON FACE CHG'D FROM 1/8 R TO 5/32 R
		NO WT CHG.
PER 2233	AZ	CREATED -90 ASSY FOR PBY-5 SAME AS -75 EXCEPT PART 28F3030-2 REPLACES 28F3030-1
		CREATED -93 ASSY FOR PBY-5A SAME AS -90 EXCEPT 28F1572-2 REPLACES 28F3030-1 (2 REQ'D)
		-2C ASSY TO BE 31 TO PER 2233 -1 -90 ASSY TO 53 TO BE PER 2233
		WT - 8 ASSY, 3 #10 WT CHG +.22 #) WHEN
PER 2233	BA	ADJUSTED 28F2055-7 TO CLEAR 555 TO ACC 5F1-2-6 (WAS) PER 2233 TO BE ROUTED 28F1581 (1 REQ'D) ACC 5F1 -8 W ON -93 ASSY'S TO BE 1 REQ'D
	BB	ON FACE FOR -5, MADE C-3 REMARK W 5/16 x 1/16 ALUM. AL EXTR. 2SH ALCOA DIE # K5601, SPEC. 46A98-T7 WITH MAT'L NOTE. FOR -15, MADE C-1 REMARK W AL EXTR. 11% KOTO ANGLE, ALCOA DIE # K11810, SPEC. 46A98-T WITH MAT'L NOTE. W FOR -10, MADE A-3, REMARK W 5/16 x 7/16 (.040 AL. AL EXTR. 3SH ALCOA DIE # K6260, SPEC. 46A98-T WITH MAT'L NOTE. WT CHG NEG. 8-9-43
	BC	IN RDM F FACE, PAT. 10, AL AL BAR, 1½, SPEC. 46A6 (ITEM T), WITH (RETAG). NEG. WT CHG. 10 28 41

-39G1666 (REF) TYPE B-11 SAFETY BELT

28F5795-7 (REF)

VIEW L
FOR -90 & -95 ASSYS.
SCALE 8"=1'0"

28F2181-7 (REF)

AN3-4A (2) AC372D1032 (6)

28B1200 700 (REF)

DETAIL -25R
L.H. OPPOSITE
SCALE - 6"=1'0"
MAKE FROM .070 x 4½ x 4½ ALC. 47AB-T

VIEW N
(FOR PBY-5 #93 (ON))
SCALE - 6"=1'0"

DETAIL
SCALE 12"=1'0"
REF. .051 AL ALLOY SHT 24S SPEC 47A10 COND A WT: 3R33 COND T (1 REQ'D)

BEND 1/16 R

DETAIL -22
SCALE 12"=1'0"
MAKE FROM .064 x 3½ x 8⅝ ALCLAD 24S-T-3 (AN)

DETAIL
FULL SIZE
.051 AL ALLOY SHT 24S SPEC 47A10 COND A WT: 3R53 COND T (1 REQ'D)

DETAIL
FULL SIZE
.051 AL ALLOY SHT 24S SPEC 47A10 COND A WT: 3R53 COND T (1 REQ'D)

VIEW PORT SIDE LOOKING FORWARD

DETAIL
FULL SIZE
.051 AL ALLOY SHT 24S SPEC 47A10 COND T WT: 3R53 COND T (1 REQ'D)

28F2179-12 (REF)

28F2263-2 (REF)

17C217 (REF) MUST BE FREE TO ROTATE ON BOLT

28F2179 (REF)

DRILL #10 (.193) THRU AN23-27 AC372-1032 (4)

VIEW D LOOKING OUTBD
SCALE 6"=1'0"

28F2179-11 (REF)

3⅞ TO EDGE OF TABLE

Q6/2-D6-16

Q703/3-D13-063

VIEW E
SCALE 6"=1'0"

H-293

PRICK PUNCH (ON SIDE INDICATED) 3 HOLES

AN425D4 (3 REQ'D)

(8) .030 AL ALLOY SHT 2430 SPEC: 47A10 COND A WT: 5R-53 (1 REQ'D)

(9) .032 x .033 AL ALLOY TUBE SPEC: 47T1 COND T (1 REQ'D)

18 10R (APPROX)

AN 493 D4 (4 REQ'D)

(7) ASSEMBLY OF -8 -9 & -10 12"-1'0" (1 REQ'D)

28F7563 PLUG-DRONE FIT

#250 #333 (REF)

(5) REF.

NAVIGATORS TABLE (REF)

(4 REQ'D PER SHIP ON -55 & SUBSQ) AC525D1032-10 AC365D1032 (2 EA REQ'D)

SECTION FF

NOTE: THIS TYPE OF ATTACHMENT IS TO BE USED ON -55 & -56 ASSY AND UP.

PRICK PUNCH (3 HOLES)

AN425D4 (3 REQ'D)

(18) MAT'L MAY BE- (A) V-2-H21 T 4 5/8 OR (B) K6240 X2 5/8 AL AL EXTR, SPEC QQ-A-334-T (1 REQ'D)

(17) .030 AL ALLOY SHT 24S SPEC 47A10 CONDT (1 REQ'D)

(16) ASSEMBLY OF -17 & -18 18"-1'0" 1 REQ'D.

DETAIL
12"-1'0"
.030 AL ALLOY SHT 24S SPEC 47A10 COND T (2 REQ'D)

(6)

PRICK PUNCH 4 HOLES

DETAIL
6"-1'0"
MAT'L MAY BE- (A) Y 2 A2BT X 16 3/8 OR (B) K 3401 X 16 3/8 AL AL EXTR, SPEC QQ A 334-T (2 REQ'D)

(3)

20 1/2 x 2 x 3 RUBBER BUMPER 2 REQ'D KINGWELL #157 PURCHASE FROM KINGWELL RUBBER CO. LOS ANGELES CALIF.

AN365-664 REQ'D AN960-C8 & R10

SEE VIEW D

28F6968 STOWAGE CORD

28F6031-60 (REF) MAP DRAWER

SEE VIEW E

SEE VIEW L

#30

#333

#25

AN442-D6 (3) REF

3STA 3.66

AN960-D8 (1 REQ'D)

28F2198 (REF) 3STA 3.33

SECTION A-A
6"-1'0"

C3K TOP FOR AN3506-10 AC365D632 (2 EA REQ'D)

DETAIL (2)
FULL SIZE
.030 AL ALLOY SHT 24S SPEC 47A10 COND T (1 REQ'D)

3STA 3.0

(16) SEE DETAIL

AN426DD832-7 AC365D832 DETAIL (4 REQ'D EA.)
12"-1'0"

C3K TOP FOR AN3506-20 AC365D632 (3 EA REQ'D)

3STA 2.5

SEE DETAIL

AC525D-1032 AC365D-1032 (4 REQ'D EA.)

(3) REF

C3K TOP FOR AN3506-20 AN3456D632 (3 EA REQ'D)

28F2198 (REF)

-05 COMPASS MOUNT

SECTION B-B
SCALE - 6"-1'0"

E.O. 85366 (PBY-5, 5A, -0401 & -0403 & AM-3463 & AM-3464)

E.O. A1928 28-5411

E.O. A1268

(22) 2½ DIA

(21)

(20) STOWED POSITION OF SEAT

10 (.193) 3 HOLES AT 2.71 DIA BOLT CIRCLE AC372D1032 (3) Q3106D10-24 (5) (FOR PBY-5A ONLY) PBY-5A

120°

-05 COMPASS MOUNT

MAKE FROM .051 x 5⅜ x 5⅜ 24ST ALC 47AB CLADDY

(21)

28F6968 (REF) SHOWN WITH SEAT STOWED

C3K TOP FOR AN3506-10 AC365D632 (2 EA REQ'D) LOCATE SHIM 28F2133

AN320-10-30 (3 REQ) AC365-1032 AN960-10 (ION BOT.) 86-P-945

(M) 10 (.193) 3 HOLES AT 2.71 DIA BOLT CIRCLE AC372D1032 (3) Q3106D10-24 (5) (FOR PBY-5A ONLY) PBY-5A

(K) 4 REQ'D PER SHIP ON -55 & SUBSQ AC525D1032-10 AC365D1032 (2 EA REQ'D)

(L) MATERIAL .030 AL ALLOY SHT 24S SPEC 47A10 COND T (1 REQ'D)

AC525D-1032 AC365D-1032 (4 REQ'D EA.) (3) REF

C3K TOP FOR AN3506-20 AN3456D632 (3 EA REQ'D)

28F2198 (REF)

SEE DETAIL

AN442-D6 (4 REQ'D)

(6) SEE DETAIL

28F2083-20 SEAT ASSY

28F5030-57 FOR PBY-5 (-55 ASSY'S) & ALL FUTURE ASSY'S

28F5030-2 FOR PBY-5 (-55 ASSY'S) & ALL FUTURE ASSY'S

28F7572-0 FOR PBY-5 (PBY-5A MCR #255

(AC) DRILL #10 (.193) 1 HOLE THRU AN23-23 AC372-1032 AN960-10 (1 EA REQ'D)

28F2220-PBY-2 28F3031 (PBY-3 PBY-4)

28F2182 (1 REQ'D) PBY-2-3 ONLY

28F2232 COLLAR

AN23-31 AC372-1032

28F6055

28F7595

AN23-23 AC372-1032 (4 PLACES 90° OPPOSED)

AC425D1032-10 AC365D1032 (4 REQ'D EA.)

DRILL #10 (.193) 2 HOLES THRU AN23-23 AC372-1032 AN960-10 (2 EA REQ'D)

LOCATE HOLES FROM (HOLES IN 28F2181 (REF))

SEE VIEW N FOR PBY-5, #93 ON.

SEE DETAIL (11)

(12) SEE DETAIL AC365D1032 (4) AC525D1032-10 (4 REQ'D EA.)

SEE DETAIL (13)

DRILL #10 (.193) 2 HOLES THRU AN23-23 AC372-1032 AN960-10 (2 EA REQ'D)

USED ON -5, -80-4 -90 ASSY'S 28F5030-2 ON ALL FUTURE ASSY'S ALSO SEE NOTE 10 ASSY'S

-70 (REF) (-01 -80 & 93)

28F2198-5 (REF)

35½ (REF)

34 (REF) (MAP COMPT) REF

AN23-42 Q6/0-D6-12 AN960-10 AC372-1032

VIEW AT C-C
6"-1'0"

SPACER BLOCK 2 x 3 x 11½ SPRUCE BLOCK SPEC 3953 FINISH 2 COATS VARNISH

C3K TOP FOR AN3506-20 AN3456D632 (2 EA REQ'D)

3STA 2.0

12⅝

-57 A33Y AC525D1032-10 AC365D1032 (2 REQ'D EA, 8 PER SHIP)

-57 A33Y AC585D1032-10 AC365D1032 (2 EA REQ'D) 8 REQ'D PER SHIP

(3) SEE DETAIL TRIM ON INST

(5) SEE DETAIL

AN442-D6 (9 REQ'D)

AN515-D8-8 (8) AC365D832 (2)

¾ (TABLE) (REF)

2½ (REF) (MAP COMPT)

AN365-6-9 (3 REQ'D)

(7) SEE DETAIL

AN442-D6 (4 REQ'D)

28F2083-20 SEAT ASSY

28F5030-57 FOR PBY-5 (-55 ASSY'S) & ALL FUTURE ASSY'S

28F5030-2 FOR PBY-5 (-55 ASSY'S) & ALL FUTURE ASSY'S

28F7572-0 FOR PBY-5 (PBY-5A MCR #255

28F2181-10 ON -50 ASSY'S

DRILL #10 (.193) 2 HOLES THRU AN23-23 AC372-1032 AN960-10 (2 EA REQ'D)

LOCATE HOLES FROM (HOLES IN 28F2181 (REF))

SEE VIEW N FOR PBY-5, #93 ON.

SEE DETAIL (11)

(12) SEE DETAIL AC365D1032 (4) AC525D1032-10 (4 REQ'D EA.)

SEE DETAIL (13)

DRILL #10 (.193) 2 HOLES THRU AN23-23 AC372-1032 AN960-10 (2 EA REQ'D)

USED ON -5, -80-4 -90 ASSY'S 28F5030-2 ON ALL FUTURE ASSY'S ALSO SEE NOTE 10 ASSY'S

3STA 3.33

3STA 3.0

3STA 2.5

NOTE: ALL RIVETS AN442D4 EXCEPT AS NOTED

GENERAL NOTES:

(AV) 1 VARI TYPE PLOTTER, NON-MAGNETIC WITH 16" ARMS (R SCALES WITH A GRADUATED PROTRACTOR HEAD FOR ATTACHMENT OF TWO STRAIGHT EDGE SCALES GRADUATED IN MM ON BOTH EDGES

(AW) 2 28F2263-3 IS AN INTERCHANGEABLE ALTERNATE FOR 28F6968

SYMBOL	WT	DESCRIPTION AND SUPPLEMENTARY REMARKS AND OTHER INFORMATION
X		TRACE
AA		28F2182 REQ
AB		28F2182 CHG
		REMARKED NEG
		ON -50 ASSY
AC		ADDED -50 ASSY
A-B		REVISED -50 ASSY
A-C		ADDED -50 ASSY
		REVISED -50 ASSY
		PLACE OF
AD		ADDED PART NO.
		REQ'D
		WITH -40 FD
AE		ADDED -40 ASSY
		REMARKED
AF		ADDED -50 ASSY
AG		-5A REMARKED
		-50 ASSY
		TO -55
AH		ADDED -50 ASSY
		ADDED -50 ASSY
AJ		REPLACED -50
		ABS WITH
		AN526-0809
		AC 3C
		WAS A
		ON -55
AK		REMOVED -50
		-50 ASSY'S
		28F2181
AL		REMOVED 28F

QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SPEC	MATERIAL	REMARKS
	-05 PBY-5A	28F5030-2			
	-90 PBY-5	28F7572-0			
	WHEN (-70 ASSY)	AN515-D8-8			
		AN365-1032			
		AN960-10			
		AN960-8			
		AN515-8-8			
		AN515-8-12			
		AN3506-20			
		AN3456D632			
		AN3506-10			
		AN3456D632			
		AN3506-10			
		AN3456D632			
		AN515-D8-8			
		AC365D832

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATIONS	DATE	BY
Z	TRACED	2 18 56	RPH
A A	28F2182 REPLACED BY 28F2055 ON PBY-5 ONLY	2-23-56	[illegible]
A-B	REPLACED 28F2198 WITH 28F2091-53 & 28F2091-54 ON -50 ASS'Y FOR 1PBY-5	3-2-56	MHELL D6
A-C	ADDED -55 ASS'Y IN WHICH AN3503-2 IS USED IN PLACE OF 28F2083-20	3-29-56	SHELL
AD	ADDED PBY-5 / 28-5 MF REQ'TS REPLACED -55 WITH -40 FOR 28-5MF	4-26-56	HLSH
AE	ADDED -56 ASS'Y, 28F5030-57 REPLACES 28F5030-2	4-29-56	per Mattice to E.O 21553
AF	ADDED WHB TYPE NORMAL ROTTER & BRACKET ASS'Y	4-29-56	per Mattice to E.O 23491
AG	346 REMOVED FROM ASS'S 55 & 56		
	28 185-54 CAN SEE FR ADDED ARMREAR TO -55 & -56 (CAN'S R/H TO MATCH	4-30-56	WM
AH	ADDED 28F2198-56 TO ASS'Y -50	5-1-56	WM E.O # 23412
	ADDED -57 / -58 ASS'YS	5-16-56	[illegible]
AJ	REPLACED AN442-04, D4, D5, AD6 WITH AC525-D1032, -6, -10 & AN526-D0832-7 & AC365-D1032	5-21-56	[illegible]
	AC365-D1032 AT -57, -10 IN VIEW "A" & 28F2182, SEC. F-F ON -57 ASS'YS.	5-21-56	[illegible]
AK	REMOVED 28F2198-56(1) FOR 28F2198-57(1) ADDED 28F2198-55 (1)	5-21-56	WM
AL	REMOVED 28F2198-10 FROM -57 ASS'Y	6-21-56	BRYCE

E.O. 39646 PBY-5 SA. OAK 1 28-3445 AM

E.O. 41928 28-5MM

E.O. A12684

E.O. 23412

E.O. 88328

E.O. 23491

E.O. 21553

E.O. 23491

E.O. 23412

E.O. 21553

E.O. 23491

E.O. 23412

E.O. 21553

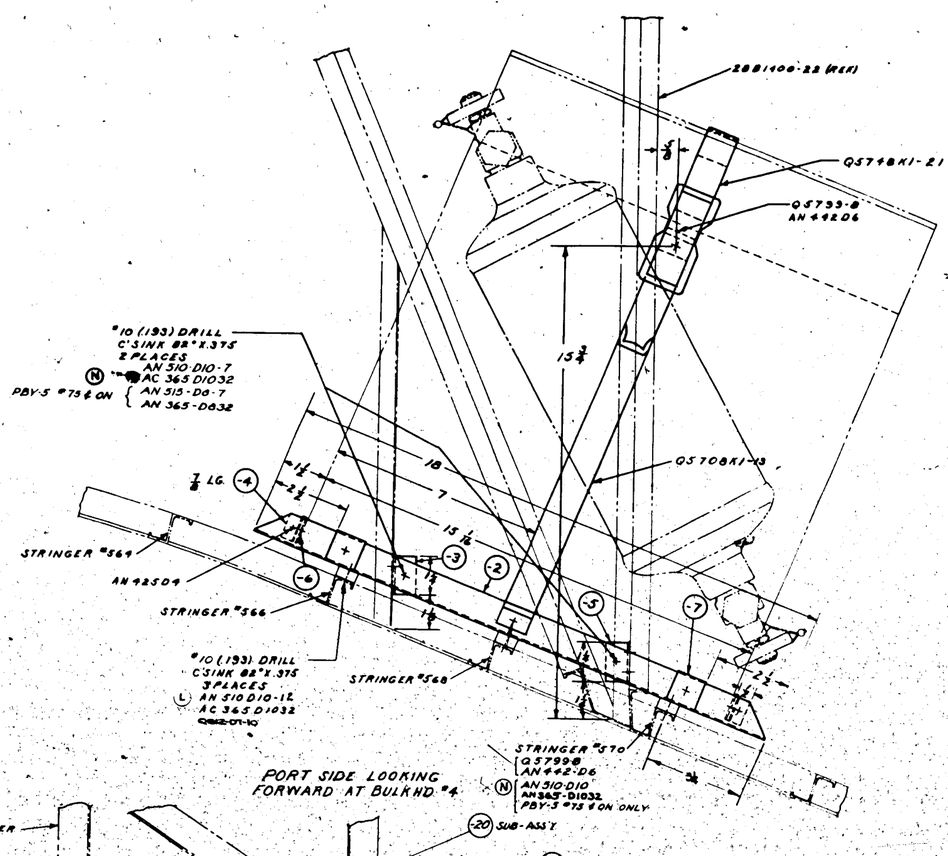
E.O. 23491

E.O. 23412

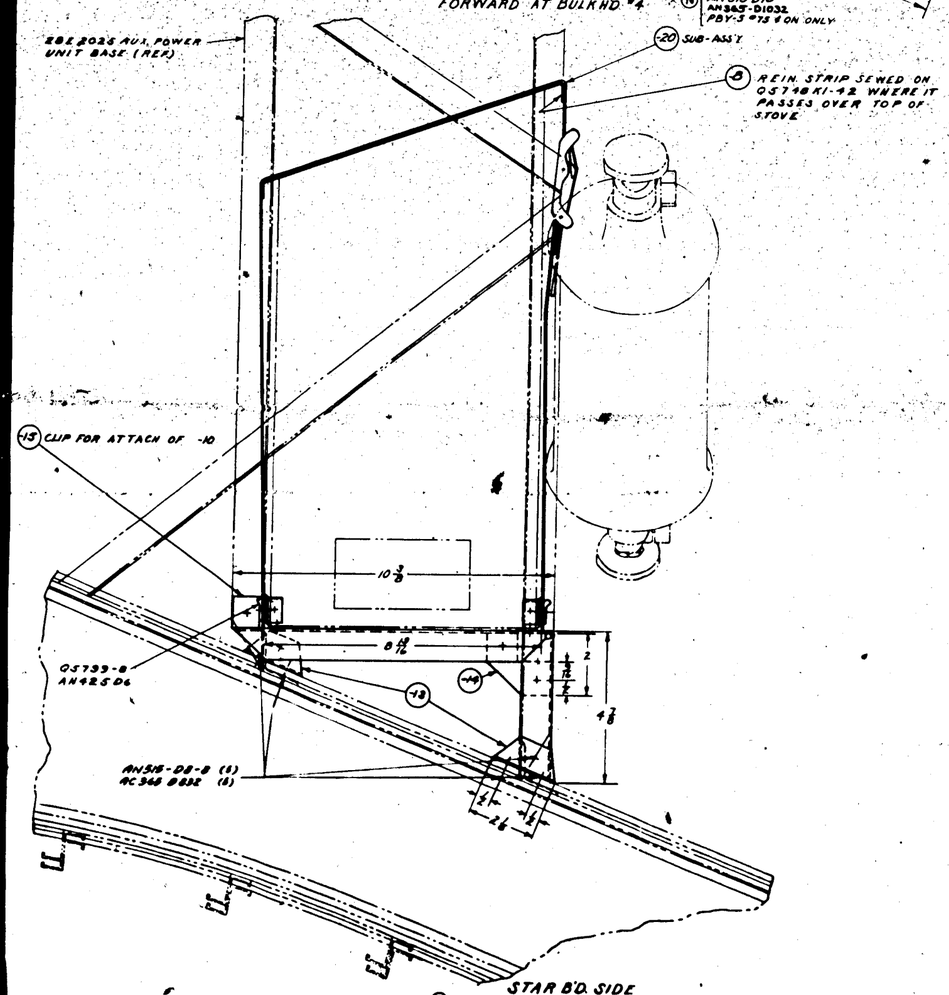
LET	ALTERATION	DATE
G	TRACED	
H	AN 310-D10-10 WERE AN 310-D10-7	
	ADDED -65 ASSY & PART'S REQ'D.	
	CHANGING -10A TO -10A (-65 REQ'D)	
	ADDED -12A EXPLANATORY NOTE	
K	CHG'D QTY -10 WAS 2 NOW 1 REQ'D	
	ADDED DWG. DATA.	
L	AN 310-D10-12 WAS AN 310-D10-10	
N	ADDED PARTS AN 315-D8-7	
	AN 365 D1032, AN 365 D1032	
	AN 365 D1032 TO FACE OF	
	DWG & 2 PL.	
N	ADDED TO DWG & -84A AN 315-D8-7 (4), AN 310-D10(1), AN 365-D1032 (2), & NOTE "4"; ON -84A AN 365-D1032 (2) WAS (4) & AN 365-D1032 (2) WAS (1) ALSO -15 (REF) & (2) WAS (REF)	
P	ADDED -36A ASSY TO -84A ADDED NOTE ONE -36A ASSY, ADDED TO NOTE SOME "4", SEE SDF2B36 FOR STBD INST. SHIMS "10 TO 167.	

PBY5 736 ON BP A3343

SUPPLIES & EQUIPMENT CLASSIFICATION

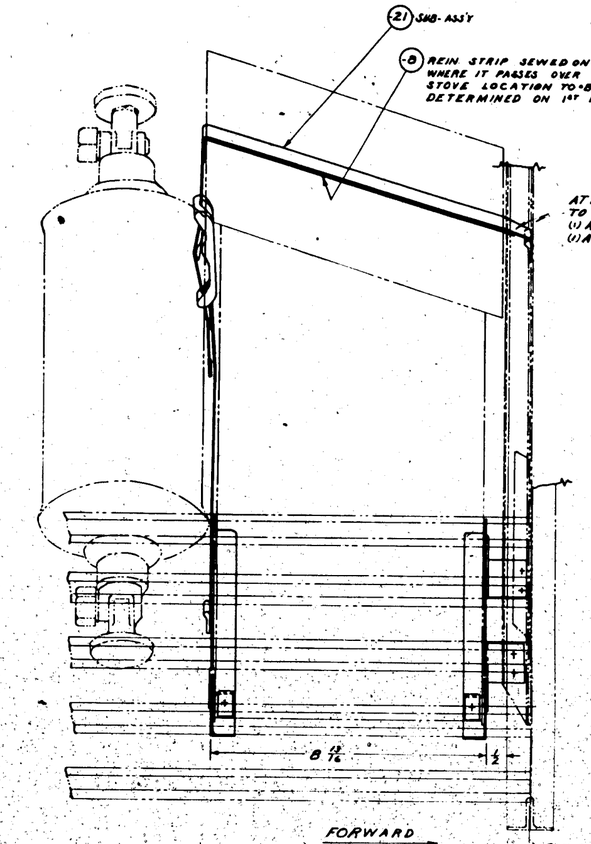


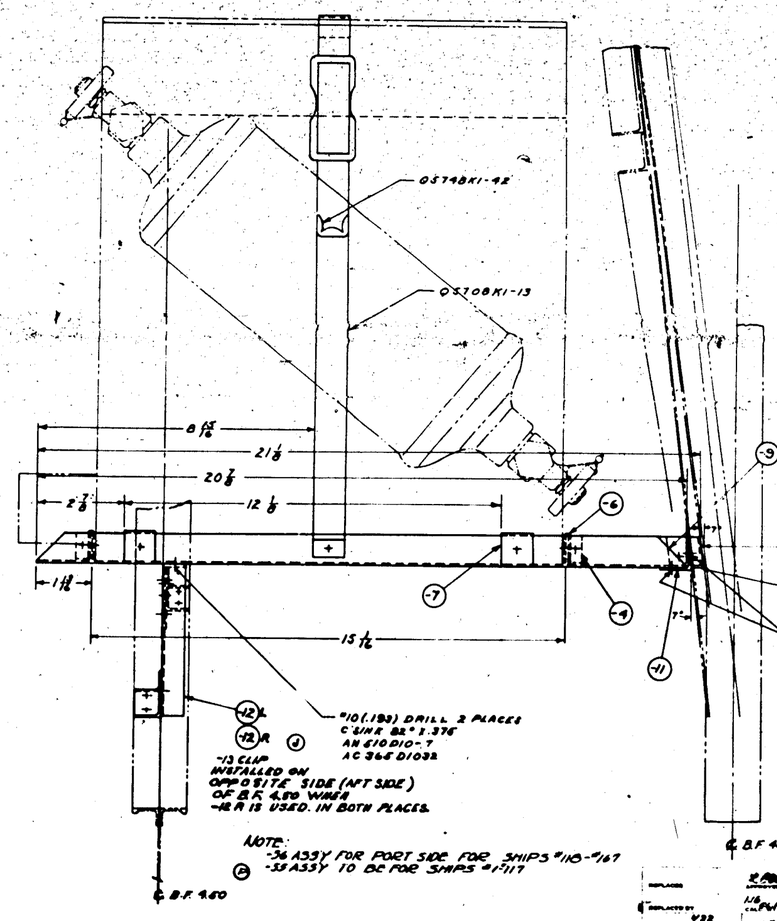
PORT SIDE LOOKING FORWARD AT BULKHD "4



STAR'D SIDE LOOKING AFT
(A) SEE 28F3293 FOR STBD INSTALLN SHIPS "118-"167

NOTE.
1. ALL ANGLES THAT COME IN CONTACT WITH STOVE TO BE COVERED AT INTERVALS WITH 1/16 COTTON WEBBING
2. FLUSH HEAD ALL RIVETS THAT COME IN CONTACT WITH STOVE.
3. ALL RIVETS AN 442D4 EXCEPT AS NOTED.
4. USE OF RIVETS MAY BE CONTINUED WHEN SCREWS AND/OR NUTS ARE NOT AVAILABLE. (N)





NOTE:
-36 ASS'Y FOR PORT SIDE FOR SHIPS "118-"167
-35 ASS'Y TO BE FOR SHIPS "1-"117 (P)

MATERIAL

- 13 3/4 X .070 AL ALLOY EXTRU. 245 ALCOA DIE "K1288 SPEC 46A9 COND. T -2, -9, -10, -12
- 5/8 X 1/2 X 3/16 AL ALLOY EXTRU. 245 ALCOA DIE "K9876 SPEC 46A9 COND. T -9
- 1 X 1 X 1/16 AL. ALLOY EXTRU 245 ALCOA DIE "K 78V SPEC 46A9 COND T -11, -13, -15 LENGTH OF -11=1 3/8 OF -13=1/8
- .051 AL. ALLOY SHT 245 SPEC 47A10 COND. T -5
- KHAKI WEBBING COTTON NON-STRETCHING 1" WIDE X 1/16 THICK SPEC COMM. -7 11 1/4" LONG -8 11" LONG
- KHAKI WEBBING COTTON NON-STRETCHING 1/2 WIDE X 1/16 THICK SPEC COMM. -6 1 3/4" LONG
- 1 3/4 X 3/16 X .070 AL ALLOY EXTRU ALCOA DIE "K 13483 SPEC 46A9 COND. T -3, -5

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION		
LET	ALTERATION	DATE
G	TRACED	1-15-42
H	AN310-DR10 WAS AN510-DR10-7	6-20-42
J	ADDED -25 ASSY. & PBY-5 REQ'S.	1-6-43
	CHANGING -18L TO -18A & -18L TO -18B	
	ADDED -18A EXPLANATORY NOTE	
K	-18L TO -18A WAS 0012-01-10	5-1-43
	ADDING PBY-5A REQ.	
L	AN510-DR10 WAS AN510-DR6-10	12-24-43
M	ADDED PARTS AN515-DR6-8	12-14-43
	AN365-DR832, AN526DD1032-8	
	AN365DR1032 TO FACE OF PWC & PWL	
N	ADDED TO DWG & REV. AN515-8-8	3-16-44
	DB-7(6), AN 310-D10(1),	
	AN365-D832 WAS AN 365-D1032, & NOTE #4; ON -8 & -9 AN365-D832 (9) WAS (8) & AC 365-D1032 (12) WAS (11) & -17 & -17L (4) WAS (3) & (5) (11)	
P	ADDED -36 ASSY TO PBY-5A REQ'D. NOTE FOR -25 & -25A ASSY ADDED TO NOTE SAME "& -36" SEE SDF2208 FOR STBD INST. - SAME AS TO -25.	3-16-44

2BB1400-22 (REF)

Q5748K1-21

Q5739-8
AN 442 D6

15¾

Q5708K1-13

*10 (.193) DRILL
C'SINK 82° X.375
2 PLACES
AN 510-D10-7
AC 365 D1032
(N) PBY-5 *75 & ON { AN 515-D6-7
AN 365-D832

⅞ LG. (-4)

1½
2½
18
7
15 1/16
(-3) (-2) (-5) (-7)

STRINGER *564

AN 425 D4

STRINGER *566

*10 (.193) DRILL
C'SINK 82° X.375
3 PLACES
(L) AN 510 D10-12
AC 365 D1032
0012-01-10

STRINGER *568

STRINGER *570
Q57998
AN 442-D6
(N) AN 510-D10
AN 365-D1032
PBY-5 *75 & ON ONLY

PORT SIDE LOOKING FORWARD AT BULKHD #4

NOTE.
1. ALL ANGLES THAT COME IN CONTACT WITH STOVE TO BE COVERED AT INTERVALS WITH 1/16 COTTON WEBBING
2. FLUSH HEAD ALL RIVETS THAT COME IN CONTACT WITH STOVE
3. ALL RIVETS AN 442 D 4 EXCEPT AS NOTED.
4. (N) USE OF RIVETS MAY BE CONTINUED WHEN SCREWS AND/OR NUTS ARE NOT AVAILABLE.

(21) SUB-ASS'Y

(8) REIN. STRIP SEWED ON Q5748K1-21 WHERE IT PASSES OVER TOP OF STOVE LOCATION TO BE DETERMINED ON 1ST INSTALL.

PBY5 *76 ON ED. A3943

ED. A4863 PBY-5

(N) ATTACH -21 SUB-ASS'Y TO BLK'D *4 WITH
(1) AN526PD1032-8
(1) AN365D1032

8 12/16

½

FORWARD

℄ BULKHD *4

28E 2025 AUX. POWER UNIT BASE (REF)

(20) SUB-ASS'Y

(8) REIN. STRIP SEWED ON Q5748K1-42 WHERE IT PASSES OVER TOP OF STOVE

AFT EDGE OF MISC TOOL & GEAR LOCKER 28F022 (REF)

(15) CLIP FOR ATTACH OF -10

10 3/8

8 12/16

2

½

4 7/8

Q5739-8
AN 425 D6

(-18)

ANSI6-D8-8 (6)
AC 365 D832 (8)

2½
2⅝

STAR BD. SIDE
(P) LOOKING AFT
SEE 28F3293 FOR STBD INSTALLN
SHIPS *118-*167

Q5748K1-42

Q5708K1-13

8 15/16
21⅛
20⅞
2⅞
12 1/8
1 11/16
15 1/16

(-9) (-6) (-10) (-7) (-4) (-11)

CUT OUTSTANDING FLANGE OF -10 AT 45°

*10 (.193) DRILL 2 HOLES
AN 520 D10-7
AC 365 D1032

(-12) (-12R) (J)
*10 (.193) DRILL 2 PLACES
C'SINK 82° X.375
AN 510 D10-7
AC 365 D1032

-13 CLIP INSTALLED ON OPPOSITE SIDE (AFT SIDE) OF B.F. 4.60 WHEN -18 R IS USED IN BOTH PLACES.

NOTE:
(P) -36 ASSY FOR PORT SIDE FOR SHIPS *118-*167
-39 ASSY TO BE FOR SHIPS *1-*117

℄ B.F. 4.60

℄ B.F. 4.75

FORWARD

MATERIAL

- 1½ x ¾ x .070 AL ALLOY EXTRU 24S, ALCOA DIE *K1288, SPEC 46A9 COND. T, -2, -9, -10, -12
- ⅝ x ½ x 1/16 AL ALLOY EXTRU. 24S, ALCOA DIE *K3876, SPEC 46A9 COND. T, -4
- 1 x 1 x 1/16 AL. ALLOY EXTRU 24S, ALCOA DIE *K 780, SPEC 46A9 COND. T, -11, -13, -15 LENGTH OF -11/-13 2⅝ & 1⅝ x 1⅛
- .051 AL ALLOY SHT 24S, SPEC 47A10 COND. T, -19
- KHAKI WEBBING COTTON NON-STRETCHING 1" WIDE x 1/16 THICK, SPEC COMM, -7 1 11/16" LONG, -8 11" LONG
- KHAKI WEBBING COTTON NON-STRETCHING ½" WIDE x 1/16 THICK, SPEC COMM, -6 1⅞" LONG
- 1¼ x ¾ x .070 AL ALLOY EXTRU, ALCOA DIE *K 13689, SPEC 46A9 COND. T, -3, -5

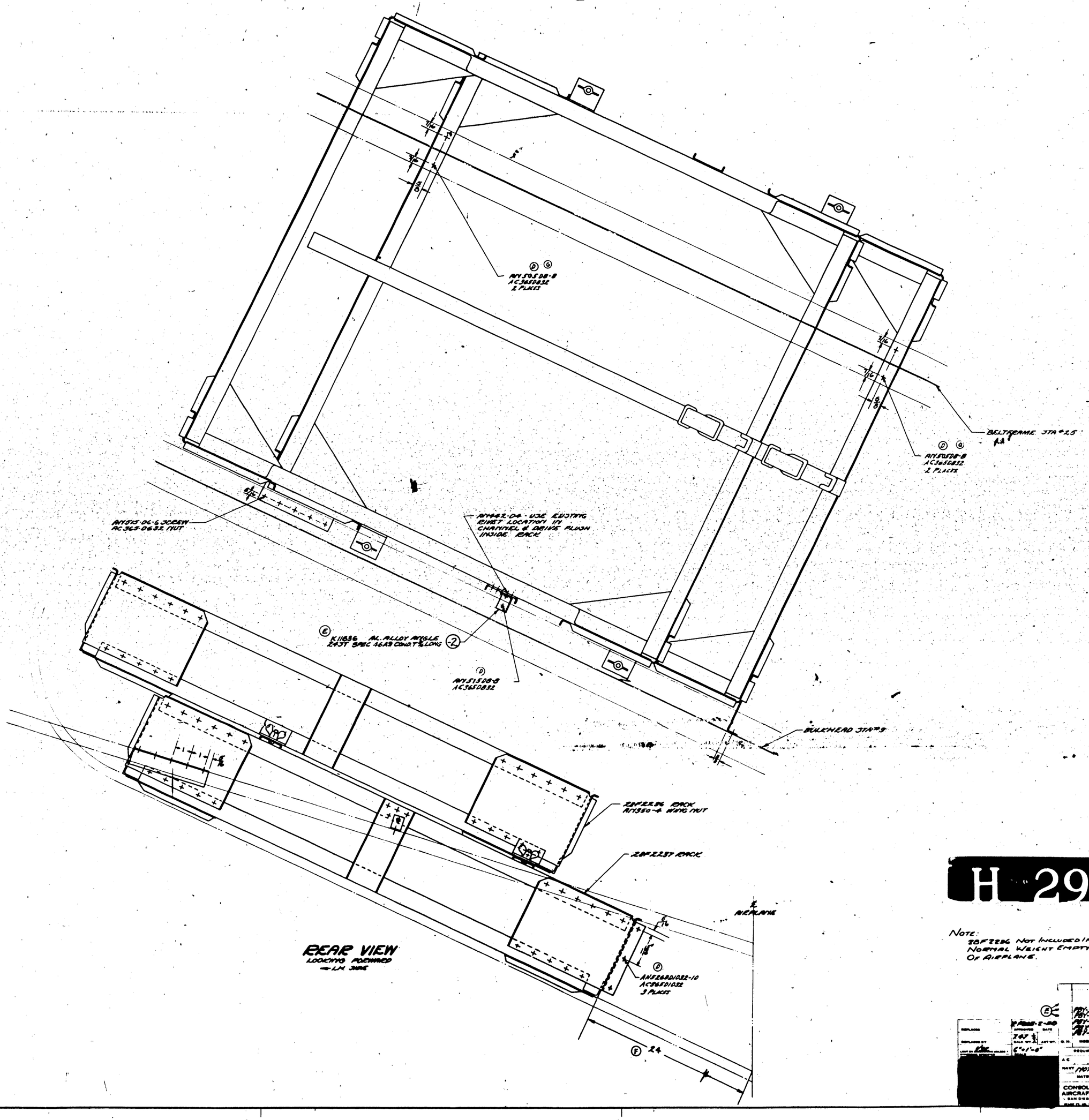
| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
C	TRACED	7-2-42	
D	ANS1515-DB-8 & ANSE6DD1032)	11-2-42	
	ANS1515-DB-8 & ANSE6DD1032 WERE ANS6224		
	I R I D. ON AN4482-04 WAS 11 EA.		
E	K11636 AL ALLOY ANGLE 24 ST. SPEC 46A9 COND T & LONG WAS K11636 AL ALLOY ANGLE 24S COND T SPEC 46A9 OR 7075 SPEC 46A10. ADDED PART NO.	7-9-42	
F	24 DIM. WAS 24 L WT. ESTIMATE CL.	8-12-42	
G	ANS1515-DB-8 (1) & ANSE6-DB-8 (4) WAS ANS1515-DB-8 (5) ALL	9-11-42	

PER-F 28-10 28-24 E.O. 38694

E.O. 39442



H 295

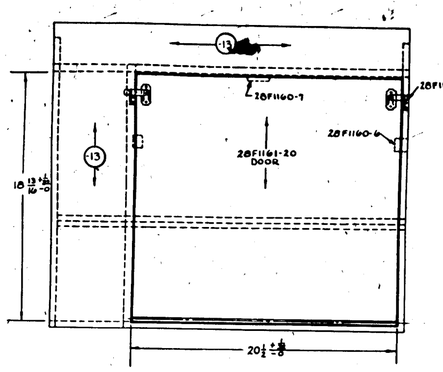
NOTE:
28F2236 NOT INCLUDED IN NORMAL WEIGHT EMPTY OF AIRPLANE.

					AN526C832	4									
					AN515-8-8	4									
					AC365D832	4									
					AN960-4	4									
E					AC365D632	4	28F2236-2	1							
	28F-2	28A003	1		AN526-8	2	28F2237	1							
	28F-3	28A004	1		AN526-10	3	28F2238	1							
	28F-1	28A005	1												

REPLACED															
REPLACED BY															

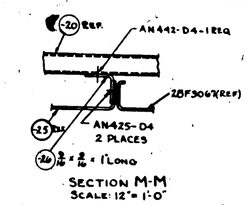
28F2246 R

H 296
ENG. FILE
28F2246
STOVE & FOOD LOCKER INSTALLATION - (1)ON
CONSOLIDATED AIRCRAFT CORP.
SECTION H-H
SCALE 12"=1'-0"
SECTION D-D
SECTION E-E
SCALE 12"=1'-0"
DETAIL E
SCALE 12"=1'-0"
DETAIL F
SCALE 6"=1'-0"
VIEW A-A
SECTION B-B
SECTION C-C
SECTION F-F
SCALE 1/4"=1'-0"
MISC. FOOD LOCKERS
SAME AS 28F1801-1
PERCOLATOR CAC# PE-1
(10-14 CUP CAPACITY) MAY BE USED
NOT AVAILABLE. CAC# PE-25
(10-14 CUP CAPACITY) MAY BE USED
NOTE: CAC# PE-1 MAY BE PURCHASED FROM THE CHASED FROM AMERICAN WHOLESALE HARDWARE CO. LOS ANGELES, CALIF. VENDOR'S CAT #5272. CAC # PE-25 MAY BE PURCHASED FROM THE BELLAIRE ENAMEL CO., BELLAIRE OHIO
DETAIL F
SCALE 6"=1'-0"
SECTION B-B
SECTION C-C
SECTION F-F
SCALE 1/4"=1'-0"

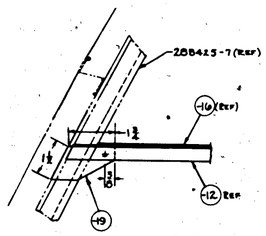


NOTE:
METHOD OF CONSTRUCTING LOCKER FOR PBY-3 #1 SHIP. IS IDENTICAL TO PBY-3 BOX AS SHOWN ON 28F2247, EXCEPT THAT DOOR 28F1161-20 WAS USED INSTEAD OF 28F3067.
(-13) .030 SHEET 6-2, -3, -4, -5, -6, -7, 6-10, .051 = 9/16 BENT AL. ALLOY ANGLES, WERE USED INSTEAD OF -25 PART.

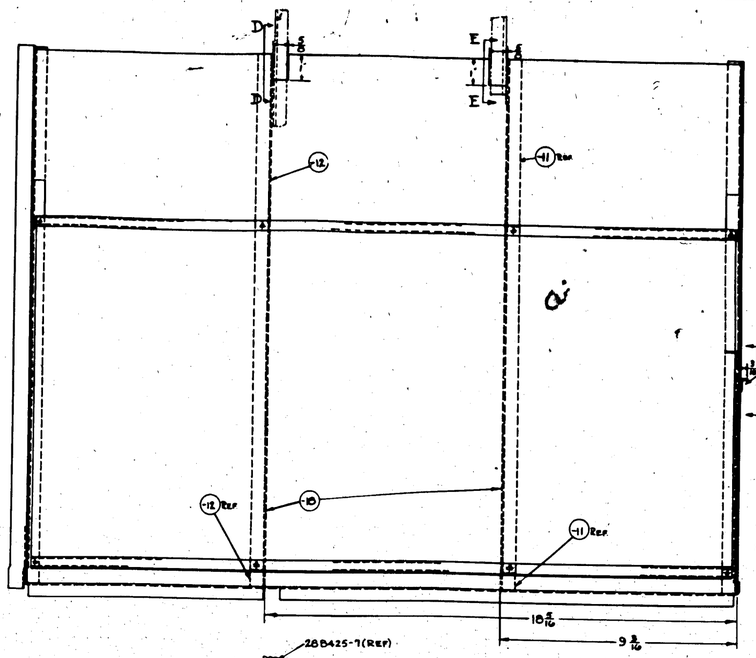
FOR PBY-3 SHIP #1

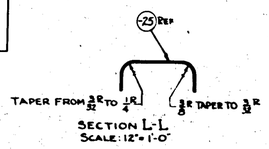


SECTION M-M
SCALE: 12" = 1'-0"

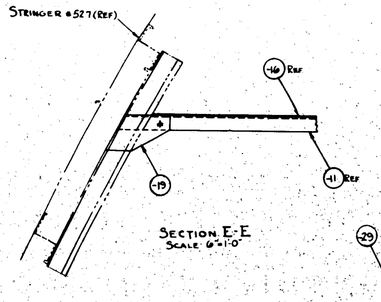


SECTION D-D
SCALE: 6" = 1'-0"

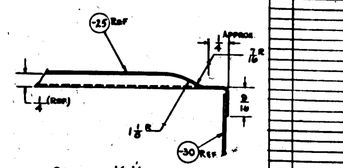




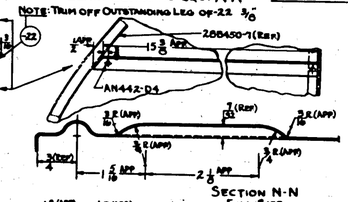
SECTION L-L
SCALE: 12" = 1'-0"



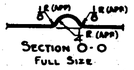
SECTION E-E
SCALE: 6" = 1'-0"



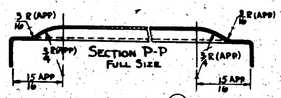
SECTION K-K
SCALE: 12" = 1'-0"
TYPICAL FOR BOTH ENDS OF BEAD. SEE ALSO SECT A-A



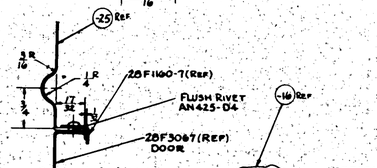
SECTION N-N
FULL SIZE



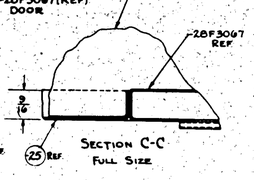
SECTION O-O
FULL SIZE



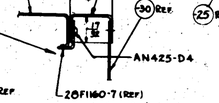
SECTION P-P
FULL SIZE



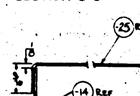
SECTION A-A
FULL SIZE



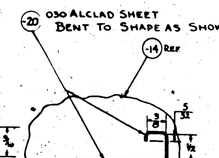
SECTION C-C
FULL SIZE



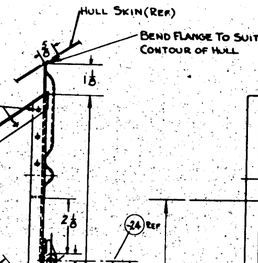
SECTION J-J

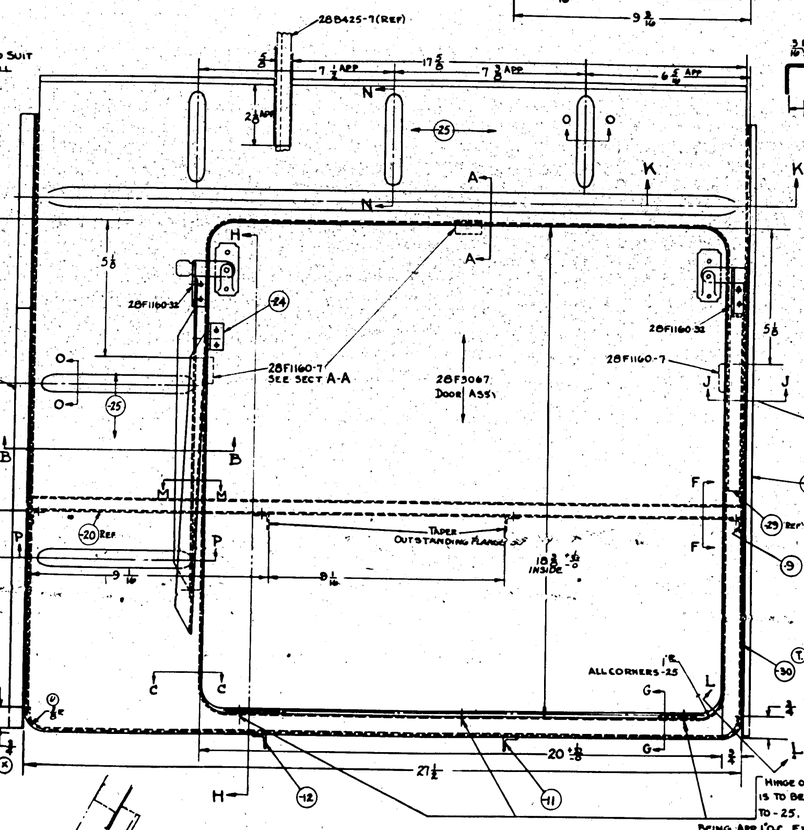


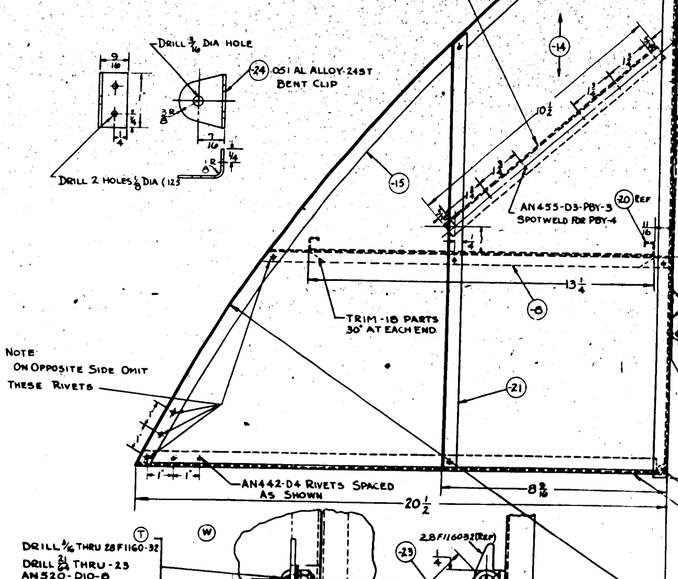
SECTION B-B
FULL SIZE

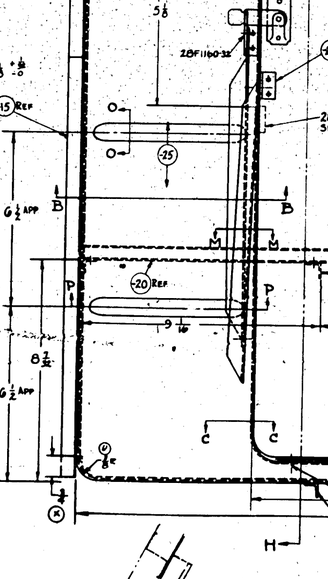


SECTION F-F
FULL SIZE







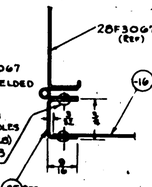


NOTE:
1. USE AN442-D4 RIVETS, WHEREVER NOTED 4 WHERE 6 IS SHOWN. ALL OTHER ATTACHMENT IS SPOT WELDED & SPACED APPROX 1" O.C.
2. -25 PART TO BE FORMED ON DROP HAMMER

.030 ALCLAD AL ALLOY, 24ST. SPEC: 47AB COND T, IS USED FOR -20, -14, -16, -19
.051 AL ALLOY SHEET 24ST SPEC 47A10 COND T., IS USED FOR -24
9/16 = 9/16 x .040 EST PLAIN ANGLE, DIE: K-6240, IS USED FOR -18, -23, -15, -21, -22, -8, -9, -26, -11, -13, & -28
.080 ALCLAD AL ALLOY, 24S& SPEC. 47AB COND. A, IS USED FOR -25

ALL AL ALLOY SHEET (ALCLAD) SPEC. 47AB (CONDITION T UNLESS NOTED EXCEPT AS NOTED
ALL AL ALLOY EXTRUSIONS SPEC 46A10 (CONDITION T) 53ST EXCEPT AS NOTED
HEAT TREAT ALL CONDITIONS A IMPERIAL PER SPEC 3003
RIVETS AL ALLOY EXCEPT AS NOTED

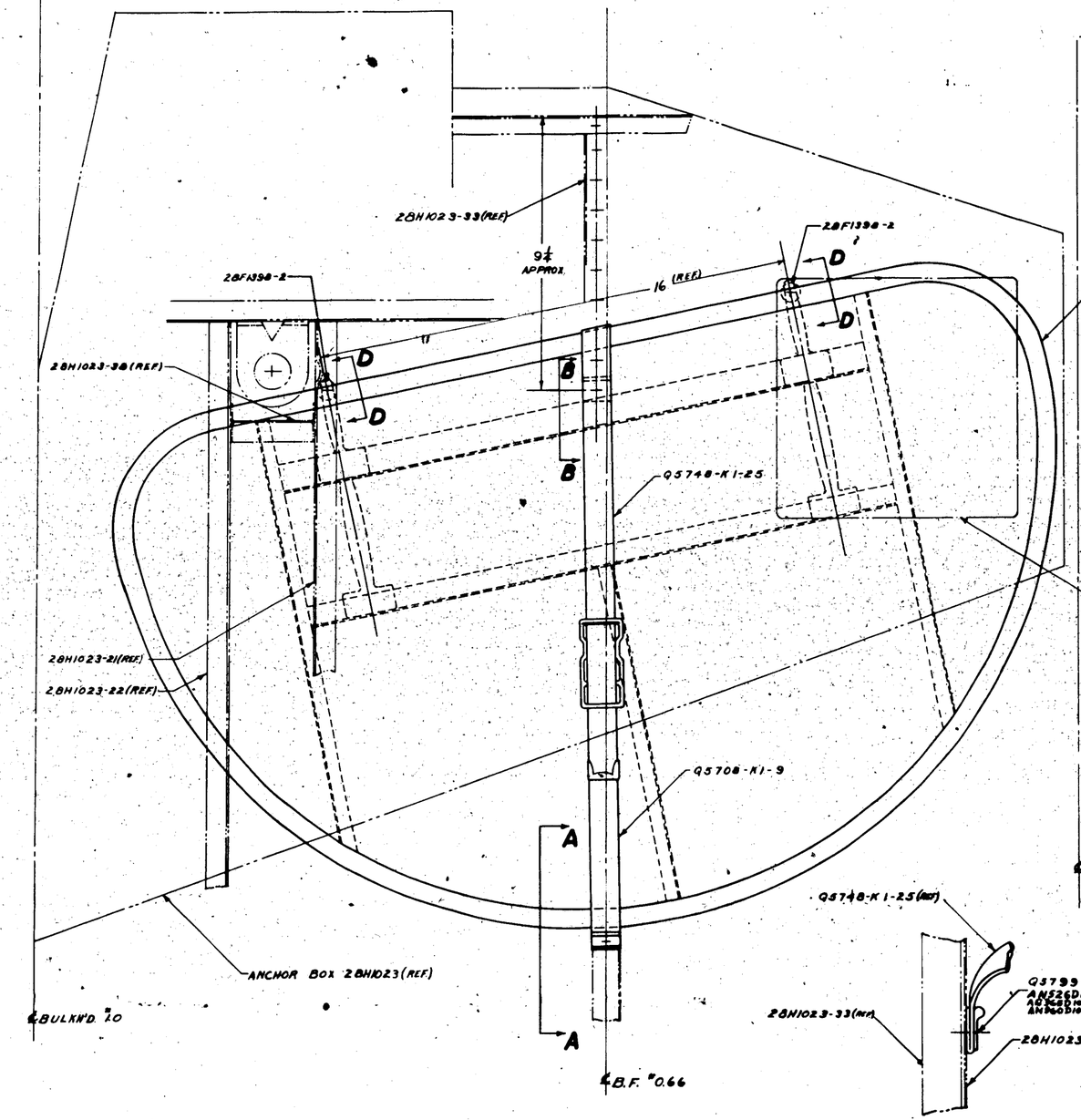
HINGE ON 28F3067 IS TO BE SPOTWELDED TO -25, SPOTS BEING 4PP 1" O.C., EXCEPT IN THE 3 PLACES SHOWN, WHERE HOLES ARE DRILLED THRU WITH #30 (.128) DRILL FOR AN442-D4 RIVETS - 3 REQ'D.



SECTION G-G
12" = 1'-0"

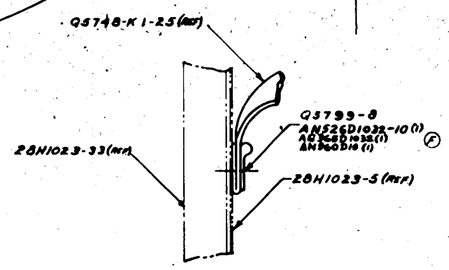
| | | |

LET	SUPPLIES & EQUIPMENT CLASSIFICATION — ALTERATION	DATE	BY
C	TRACED	2-9-50	
D	AC 348-526, WAS AN 319-D5R, AND		
	AN 936-516	11-1-50	
E Q.24512	Q 7102A516 WAS AN 960-D516	12-10-54	
F	REPLACED AN442-04 WITH [illegible]	4-6-60	
	AN526DD832-7 WAS AN526D832		
	CUT AWAY AN442-06 WITH (1) FLUSH SK		
	ATTACHMENTS & ANCHORED STRAP		
	CUT AWAY AN442-06 WITH (1) FLUSH SK		
	ANCHORED AN442-10 ; AN960D10		
	& AN960D10 SEE B-B		
	ON DRG 1 6/M		

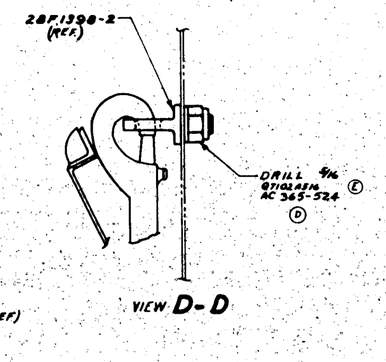


VIEW LOOKING OUTBOARD
FROM ℄ SHIP - PORT SIDE

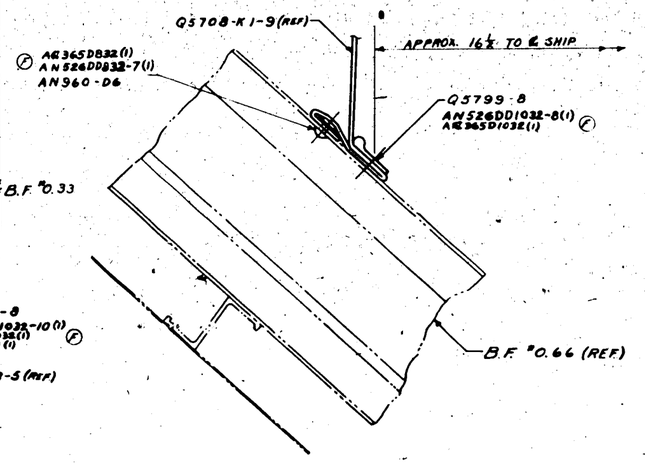
FORWARD



SECTION B-B
SCALE 12"=1'-0"



VIEW D-D



SECTION A-A
SCALE 12"=1'-0"
VIEW LOOKING FORWARD SHOWING
ATTACH. OF STRAP TO B.F. "0.66

H 298

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

NAME STOWAGE-FURNS-REVOL. WINDSHIELD COVER

SIZE J — 28F2283

SECTION B-B
SHOWING -2 ASSY
(WHICH CONSISTS OF 28F3678-9)

VIEW E
ORIGINAL METHOD OF INST SHOCK MTS ON ALL PBY-3's

SECTION C-C

SECTION A-A

VIEW D
SCALE FULL
TYPICAL ARRANGEMENTS OF 3 UPPER MOUNTS FOR PBY-4 & PBY-5

TYPICAL INSTALLATION OF LORD MOUNTS FOR PBY-4's & PBY-5's
SCALE 12"=1'0

NOTE
-79-8 (OPP) MAY BE CUTOUT TO CLEAR INSTRUMENTS AS REQD ON INSTALL.

MAT SPEC -9-4
.051 ALL ALLOY SHEET SPEC 47A10 (ALLOY 24SA)
HEAT TREAT 3.5.53 COND T
-9
.051 AL ALLOY SHEET SPEC 47A10 COND T (ALLOY 24 T)
FINISH Z-P-2GD -2 ASSY.

6P-GREEN PRIME
FINISH CODE
Z CHROMATE TREATMENT
P 4-27 PRIMER
AP ALUMINIZED PRIME
C CADMIUM PLATE

CONTRACT NO 10696

CONSOLIDATED AIRCRAFT CORP
SAN DIEGO CALIF

NAME PANEL INST FWD'NS PILOTS INSTRUMENT

DWG NO 28F3004
SIZE J

H 299

LET	ALTERATION	DATE	BY
F	TRACED		
G	CHANGED 3/32 HOLE TO -11 & 3/32 DIA. CHANGED 3/16 DIM LOCATING -11 TO 4 3/16	9-14-42	
H	CHANGED [illegible]	"	"
J	ADDED HOLES "K" EXPEDITE	4-24-43	
	ANNEALING, PREVENT PICKETS	"	"
K	ADDED HOLES FOR CUST. USE	"	"
	MATERIAL AS PER SERVICE	"	"
	CHANGE "24	"	"
	ADDED PBY-5 REQ'T.	"	"
L	WAS 20 5/8 IN. 12 20 1/8	11-1-43	
	WAS 18 3/8 IN. 18 18 1/8		
M	ADDED "28(.140) LG HOLES TO MATCH HOLES IN CASES" TO -2 & THE SUG. DIMS. (TWO VIEWS) (WAS WT CHG.)	4-7-44	
N	ADDED 28 HOLE TO -3 & LOC. DIMS. (-41) & "10(.193) DIA. (WAS WT CHG.)	4-7-44	
P	CREATED - 41 ASS'Y. WT. CHG. REQ.	3-26-45	

C.O. 1916
C.O. 7038
E.O. 18038
E.O. "A20973"
E.O. "A33656"
E.O. A31560

BUREAU CHANGE INCORP.
CHANGE "24 - PBY-3 ALL"

ALL BEND RADII ARE 1/16 R

DRILL L = 30 (.128) - 19 HOLES AS SHOWN

CUT FLAT PATTERN PARALLEL

-7 .030 BENT-UP ALCLAD SHEET

AN425-DD4 RIVETS
C'SINK 78° x 15/64 DIA
3/32 "AL ALLOY SHEET -11 SPEC. 47A10 COND. T
DRILL 7/32 HOLE

DETAIL "L" ⑥
FULL SIZE
FOR -40 ASS'Y. ONLY

-12 TO BE MADE FROM 1 1/2 x 1 1/2 x 3/32 ANGLE ALCOA DIE "K11636
AN442-D5 RIVETS

DETAIL "M"
FULL SIZE
FOR -40 ASS'Y. ONLY

-13 TO BE MADE FROM 1 3/4 x 1 3/4 x .070 ANGLE ALCOA DIE "1288
AN442-D4 RIVETS
DRILL 1/8 DIA HOLES

DETAIL "N"
FULL SIZE
FOR -40 ASS'Y. ONLY

1/4 R. TAPER RADIUS IN CORNERS FROM 3/32 TO 1/4

SECTION G-G
FULL SIZE

-5 (REF.) -2 (REF.) -3 (REF.)
TRIM CORNERS OF -5 & -6 TO CLEAR RADIUS
TAPER RADIUS IN CORNERS FROM 3/32 TO 5/16

SECTION H-H
FULL SIZE
TYPICAL OF ALL CORNERS

CUT -5 IN CORNER TO CLEAR RAD.

SECT. K-K

-4 REF.
B
E
E
"28 (.140) LG HOLES TO MATCH HOLES IN CASES (A)
"10 (.193 DIA) (A)
-6 (REF)
-5 REF.
-2 REF.
B
H
H

-2 (REF.)
-6 REF.
-5 (REF.)

SECTION E-E
FULL SIZE

-4 REF.
-6 (REF)
DRILL "30 (.128) 2 HOLES
-9 PHENOL FIBRE BLOCK SPEC. 17PS GR. P.B.G

(K) DRILL "28 (.1405) 16 HOLES IN -5, AFTER ASSEM. OF BOX AFT END OF LOCKER

-2 REF.
28F1160-32
-6 (REF)
-8
-4 (REF)
-9 (REF)
-3 REF
28F1160-8 (REF)
-7 REF
AN442-D4 RIVETS
(Y) DRILL 3/8 2 HOLES

-2
28F1160-7
28F1160-26
-11 (REF)
-4
-12 (REF)
-11 REF.
-13 REF.
SEE DETAIL "L"
SEE DETAIL "M"
SEE DETAIL "N"
-10 MADE FROM A 3/16 x 3/16 x .040 ANGLE
-7 REF.
-3
-6
SEE DETAIL "P"
-5
AN442-D4 RIVETS AS LOCATED ON -7

-3 (REF.)
-4 (REF.)
-7 (REF.)
28F1160-8

SECTION C-C
FULL SIZE

NOTE:
DO NOT RIVET UNTIL INSTALLATION OF FOOD LOCKER

CUT -6 IN CORNER TO CLEAR RADIUS
-6 (REF.)
-2 (REF.)

SECTION D-D
FULL SIZE

-3 (REF.)
-4 (REF.)

SECTION B-B
FULL SIZE

FLUSH AN442-D4 RIVET
AFT END OF LOCKER
28F1160-7 REF.
-3 (REF.)

SECTION A-A
FULL SIZE

28F1160-26 REF.
-3 (REF.)

SECTION F-F
FULL SIZE

H 300

NOTE:
-2, -3, & -4 TO BE FORMED BY DROP HAMMER
MAT'L - .030 ALCLAD, 24S. SPEC. - 47A8 COND. A.
HEAT TREAT SR-53, COND. T AFTER FORMING

-5, -6, -7 TO BE .030 ALCLAD SHEET, 24S - SPEC. 47A8 COND. T
-10 TO BE 3/16 x 3/16 x .040 EXT. ANGLE - DIE "K-6240 SPEC. 46A9
-8 TO BE 3/4 x 3/4 x 1/16 EXT. ANGLE - DIE "K5401 SPEC. 46A10 COND. T

NOTE:
USE AN442-D4 RIVETS WHERE + IS SHOWN & ALSO WHERE CALLED OUT
ALL OTHER ATTACHMENT IS SPOT WELDED, SPOTS BEING APPROX. 1" APART

-1	PBY-5A	28F3003	1
-10	PBY-5A	28F3009	1
-39	28SMM	28F3049	1
-39	28SMM	28F3063	1
-41	PBY-5	28F3048	1
-40	PBY-5	28F3048	1
-41	PBY-5	28F3048	1

AN442 DS
AN442 D4
AN426 AD6-8

28F3066-15			2
28F1160-32			2
28F1160-26			2
28F1160-8			2
28F1160-7			3
28F1160-3			12
28F1160-4			12
28F1160-5			12
28F1160-6			12
28F1160-10			12
28F1160-11			12
28F1160-12			12
28F1160-13			12
28F1160-14			12
28F1160-15			12
28F1160-16			12
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28F1160-18			12
28F1160-19			12
28F1160-20			12
28F1160-21			12
28F1160-22			12
28F1160-23			12
28F1160-24			12
28F1160-25			12
28F1160-27			12
28F1160-28			12
28F1160-29			12
28F1160-30			12
28F1160-31			12

G - GREEN PRIME FINISH CODE

-40	-41				
2	2				
3	3				
12	12				
12	12				
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12	12				

DETAIL -15
-41 ASS'Y ONLY
SCALE: 24" = 1' 0"

DETAIL "P"
-41 ASS'Y ONLY
SCALE: 12" = 1' 0"

AN442D4 (2 PLACES) RIVET HEADS UP
28F3067-31 DOOR (REF.)
.051 ALCLAD, 24S0-47A8-A
Y2-A4T x 7/8
AN442D4 (REF.)
-3 (REF.)
NOTE: BEND FLANGE OUT SLIGHTLY, IF NECESSARY TO FACILITATE LIFT-ING DOOR IN & OUT.

DESIGNED	SCH	DATE	
DRAWN	TAA	DATE	
CHECKED		DATE	
APPROVED		DATE	
SCALE	6" = 1'-0"	WT. PER SHT.	

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

BOX - FURNISHINGS - FOOD LOCKER

SIZE J | DWG. NO. 28F3066 | REV. A

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
A	TRACED	9-23-40	
C	ADDED PRESSED FRAME NOTE	1-3-40	
D	IN B.M. & ON DWG. AN515-08-7 (D), AN365-D832 (2), AN526-DD1032-7(2) AN 365-D1032 (2), & AN515-08-7 (D) WHERE AN442-34.	4-16-41	PRELIMINARY
E	CHGD -3 TO K5401 SD. WAS K5401 ST.	6-8-41	BLW
F	ADDED -41 WT CHG NEG.	3-29-43	

EO A35

EO-5'

EO A39452

AN515-08-7 (D)
AE365-D832
2 PLACES

-3 REF

AN526-DD1032-7 (2)
AE365-D1032 (2)

SECTION A-A
12" = 1'-0"
VIEW SHOWING INSTALL OF ANGLE BETWEEN BOX OF FOOD LOCKER & STRINGERS

CANVAS

AN526-DD1032-7 (D)
AE365-D1032

SIDE STRINGER "12

28F1018-3

28F1018-2

-3 (REF)

BOTTOM STRINGER "60

-5 (REF)

BOTTOM STRINGER "59

-4 (REF)

-2 (REF)

FRAME "2

-5

-4

AN515-08-7 (D)
AE365-D832

28F1018-2 (REF)
28F1018-3 (REF)

28F3069 (REF)

46 3/8 TO ℄ SHIP

SIDE STRINGER "12

FRAME "2.5 INSIDE

FRAME "2 OUTSIDE

FRAME "2.5 OUTSIDE

FRAME "3 OUTSIDE

-5 (REF)

-4 (REF)

-3 (REF)

-2 (REF)

STRINGER "60

STRINGER "59

℄ FRAME "2

TOP OF STRINGER "60

CANVAS

TOP OF STRINGER "59

34 (REF)

NOTES
CONDUITS 28E1013-2, -3 & -16 MUST BE INSTALLED BEFORE INSTALLING FOOD LOCKER 28F3069

28F1018-2
28F1018-3
28F1018-4
28F1018-5
28F3069
28F3070-5
28F3070-4
28F3070-2

-3 K5401 - S.D.

DIMENSIONS FOR SCREW HOLES FOR THIS END OF -2, -3 -4 & -5 ARE SHOWN IN SECT A-A

SCREW HOLES IN -2, -3 -4 & -5 TO BE LOCATED & DRILLED ON INSTALLATION

NOTE
-2, -3, -4, & -5 TO BE MADE FROM 3/16 x 3/16 x 1/16 AL ALLOY EXT. ANGLES ALCOA DWG 5801 FINISH 2-P-20A

28F3069
28F3060-40
28F3069-2 (for -4)

DETAIL B
12" = 1'-0"

ON INSTALLATION DRILL #10 (.193) 2 HOLES THRU 28E1250-6 & -9 (REF) & 28F1160-8 (REF) FOR AN526-D10832 SCREWS & AE365-D1032 NUTS 2 EACH REQ'D

NOTE
ADD SHIM BETWEEN STRINGERS & 28F1018-2, -3, -4 OR -5 AS NECESSARY TO GIVE ADDED HEIGHT

ADD SHIMS UNDER 28F1160-8 (REF) IF NECESSARY

28E1250-8 & -9 (REF)
FRAME "2.5

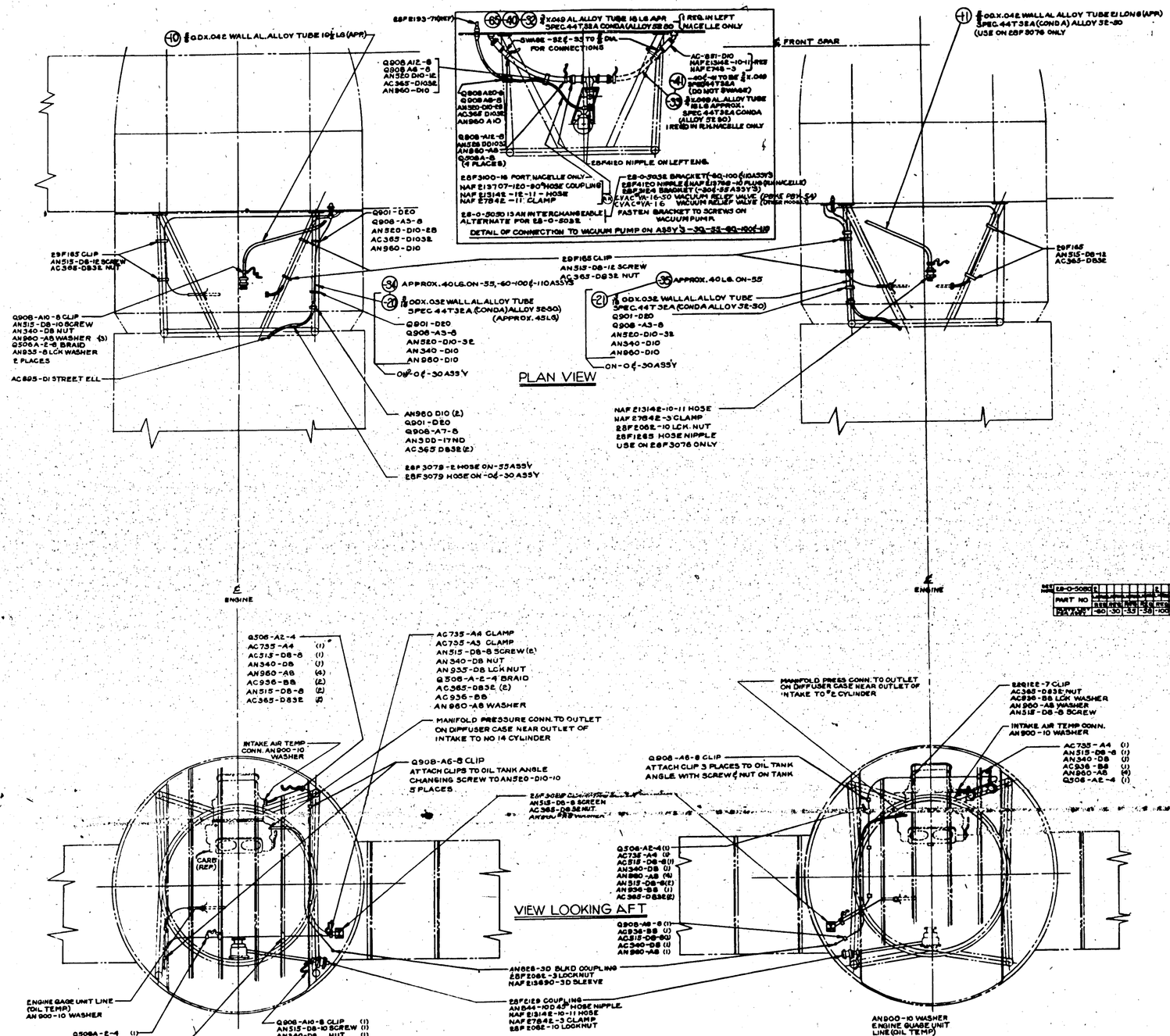
NOTE
ON PLANES WITH PRESSED FRAMES LOCATE FOODLOCKER CENTRALLY ON FLANGE OF FRAME 3/4 AFT. (APPROX) OF POSITION AS SHOWN

H 301

6 P GREEN PRIME FINISH

LET	ALTERATION	DATE	BY
AL	TRACED NOW WORK		
AM	ON FACE 8 W/O FROM PBY-5A/L		
AN	ON FACE 8 W/O FROM PBY-5A/L		
AP	ON FACE 8 W/O FROM PBY-5A/L		
AR	ON FACE 8 W/O FROM PBY-5A/L		
AS	ON FACE 8 W/O FROM PBY-5A/L		
AT	ON FACE 8 W/O FROM PBY-5A/L		
AU	ON FACE 8 W/O FROM PBY-5A/L		
AV	ON FACE 8 W/O FROM PBY-5A/L		
AW	ON FACE 8 W/O FROM PBY-5A/L		
AX	ON FACE 8 W/O FROM PBY-5A/L		
AY	ON FACE 8 W/O FROM PBY-5A/L		
AZ	ON FACE 8 W/O FROM PBY-5A/L		
BA	ON FACE 8 W/O FROM PBY-5A/L		
BB	ON FACE 8 W/O FROM PBY-5A/L		
BC	ON FACE 8 W/O FROM PBY-5A/L		
BD	ON FACE 8 W/O FROM PBY-5A/L		
BE	ON FACE 8 W/O FROM PBY-5A/L		
BF	ON FACE 8 W/O FROM PBY-5A/L		
BG	ON FACE 8 W/O FROM PBY-5A/L		
BH	ON FACE 8 W/O FROM PBY-5A/L		
BJ	ON FACE 8 W/O FROM PBY-5A/L		
BK	ON FACE 8 W/O FROM PBY-5A/L		
BL	ON FACE 8 W/O FROM PBY-5A/L		
BM	ON FACE 8 W/O FROM PBY-5A/L		
BN	ON FACE 8 W/O FROM PBY-5A/L		
BP	ON FACE 8 W/O FROM PBY-5A/L		
BR	ON FACE 8 W/O FROM PBY-5A/L		
BS	ON FACE 8 W/O FROM PBY-5A/L		
BT	ON FACE 8 W/O FROM PBY-5A/L		
BU	ON FACE 8 W/O FROM PBY-5A/L		
BV	ON FACE 8 W/O FROM PBY-5A/L		
BW	ON FACE 8 W/O FROM PBY-5A/L		
BX	ON FACE 8 W/O FROM PBY-5A/L		
BY	ON FACE 8 W/O FROM PBY-5A/L		
BZ	ON FACE 8 W/O FROM PBY-5A/L		

LET	ALTERATION	DATE	BY
AL	TRACED NOW WORK		
AM	ON FACE 8 W/O FROM PBY-5A/L		
AN	ON FACE 8 W/O FROM PBY-5A/L		
AP	ON FACE 8 W/O FROM PBY-5A/L		
AR	ON FACE 8 W/O FROM PBY-5A/L		
AS	ON FACE 8 W/O FROM PBY-5A/L		
AT	ON FACE 8 W/O FROM PBY-5A/L		
AU	ON FACE 8 W/O FROM PBY-5A/L		
AV	ON FACE 8 W/O FROM PBY-5A/L		
AW	ON FACE 8 W/O FROM PBY-5A/L		
AX	ON FACE 8 W/O FROM PBY-5A/L		
AY	ON FACE 8 W/O FROM PBY-5A/L		
AZ	ON FACE 8 W/O FROM PBY-5A/L		
BA	ON FACE 8 W/O FROM PBY-5A/L		
BB	ON FACE 8 W/O FROM PBY-5A/L		
BC	ON FACE 8 W/O FROM PBY-5A/L		
BD	ON FACE 8 W/O FROM PBY-5A/L		
BE	ON FACE 8 W/O FROM PBY-5A/L		
BF	ON FACE 8 W/O FROM PBY-5A/L		
BG	ON FACE 8 W/O FROM PBY-5A/L		
BH	ON FACE 8 W/O FROM PBY-5A/L		
BJ	ON FACE 8 W/O FROM PBY-5A/L		
BK	ON FACE 8 W/O FROM PBY-5A/L		
BL	ON FACE 8 W/O FROM PBY-5A/L		
BM	ON FACE 8 W/O FROM PBY-5A/L		
BN	ON FACE 8 W/O FROM PBY-5A/L		
BP	ON FACE 8 W/O FROM PBY-5A/L		
BR	ON FACE 8 W/O FROM PBY-5A/L		
BS	ON FACE 8 W/O FROM PBY-5A/L		
BT	ON FACE 8 W/O FROM PBY-5A/L		
BU	ON FACE 8 W/O FROM PBY-5A/L		
BV	ON FACE 8 W/O FROM PBY-5A/L		
BW	ON FACE 8 W/O FROM PBY-5A/L		
BX	ON FACE 8 W/O FROM PBY-5A/L		
BY	ON FACE 8 W/O FROM PBY-5A/L		
BZ	ON FACE 8 W/O FROM PBY-5A/L		



NOTE:
-55 TO BE Ø OD X .049 AL. AL. TUBE 17 LG. SPEC 44T3EA. TO BE USED IN LEFT NACELLE ONLY. BOND ALL TUBING & THERMOMETER LEADS IN ACCORDANCE WITH BONDING DIAGRAM 28E8102. USE CHAFING HOSE & FRICTION TAPE WHERE NECESSARY. USE PARKER THREAD LUBE, GPE OR EQUIV. ON ALL DURAL THREADS.

FINISH
TUBES 2-P-28P OUTSIDE
TOUCH UP CLIPS & STD PARTS TO MATCH ADJACENT SURFACES
MARKING OF TUBES: MANIFOLD PRESSURE LINES TO BE MARKED WITH A ½ INCH STRIP OF WHITE & LIGHT BLUE (IN ORDER LISTED) NEAR ENDS & AS REQ'D. TO CLEARLY IDENTIFY LINES.
VACUUM LINES TO BE MARKED WITH A ½ INCH STRIP OF WHITE & LIGHT GREEN IN SAME MANNER AS MFR LINES.
NOTICE: — ON -55, -60, -100 & -110 A55YD ELECTRIC THERMOMETER RS ARE USED THEREFORE PARTS FOR CAPILLARY INSTALLATION DO NOT APPLY.
BONDING FOR PBY-4 & -5A -55, -60, -100 & -110 TO BE IN ACCORDANCE WITH BONDING DIAGRAM 28E4087.
CVAC #VA-16-50 MAY BE PURCHASED FROM THE PUMP ENGINEERING SERVICE CORP CLEVELAND, OHIO. VENDOR'S # 8V-216 OR MILWAUKEE VALVE CO. MILWAUKEE, WIS. VENDOR'S # C-35115.

NOTE: (CONT)
CVAC #VA-16 MAY BE PURCHASED FROM THE PUMP ENGINEERING SERVICE CORP CLEVELAND, OHIO. VENDOR'S # 8V-216 D.

FINISH CODE
Z ANODIC TREATMENT
P 1-71 PRIMER
G-P WHITE PRIMER
C CADMIUM PLATE

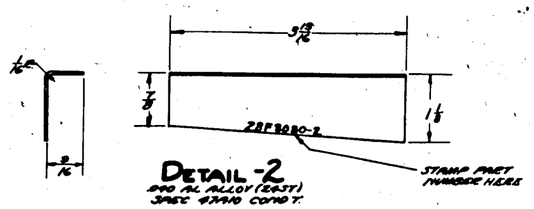
| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION

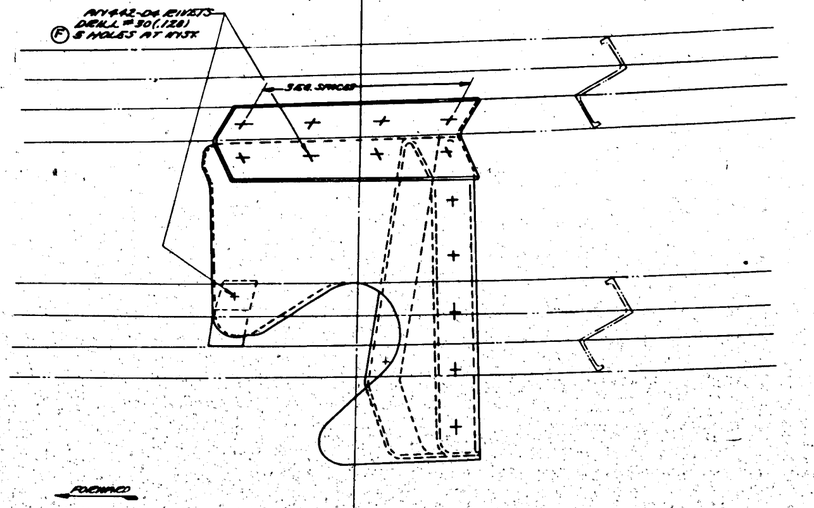
LET	ALTERATION	DATE	BY
D	TRACED		
E	CHGD. NOTE #6 & #13 & ADD'D NOTE #14	6-30-42	
F	ATTACH -2 TOZ STRINGER -3 & -6 TO STR.™ 52 WITH AN526DD832E-7, AN365D832 RIV. 5 HOLES WAS 8, ADD'D IN BM.	4-14-43	GOLDMAN
G	#40 SPHER. R. W/OS #19 SHEET R ADDED SEC'S A-A & B-B RT. CHS NEG	3-20-44	SIMPSON

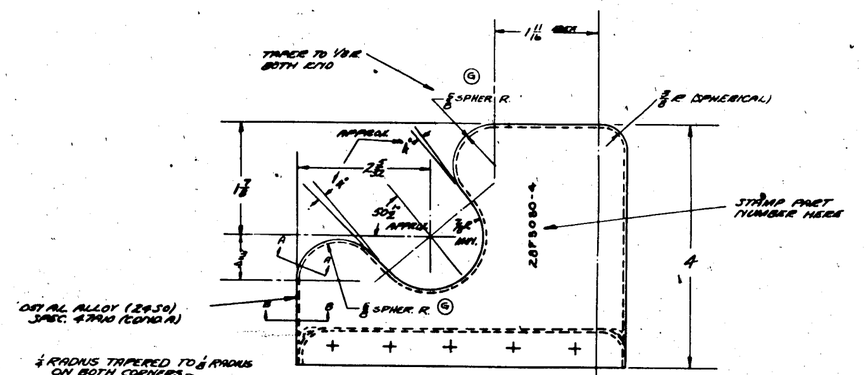
PBY-5,5A, OA-10 E.O. 39322

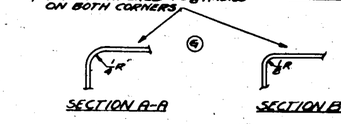
E.O. 20447

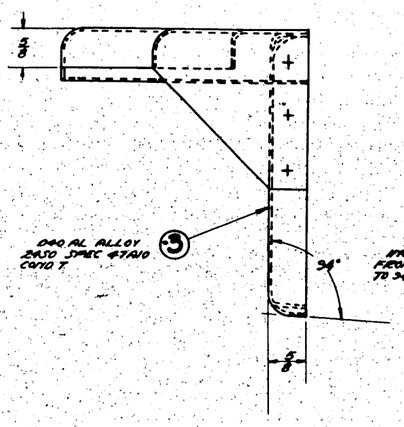


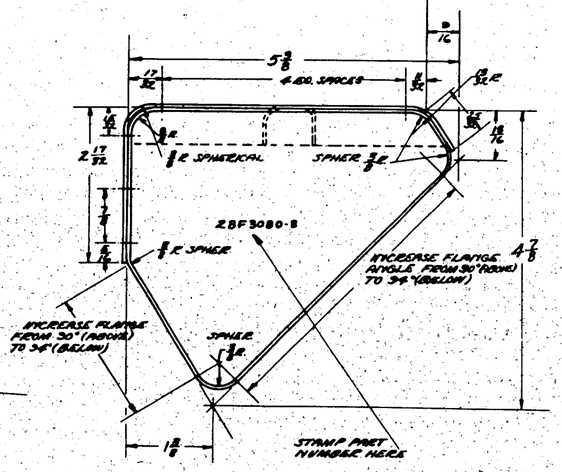
DETAIL -2
040 AL ALLOY (EAST) SPEC 47A10 COND T.

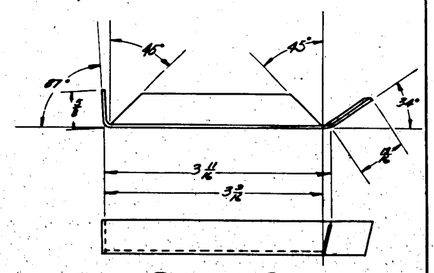








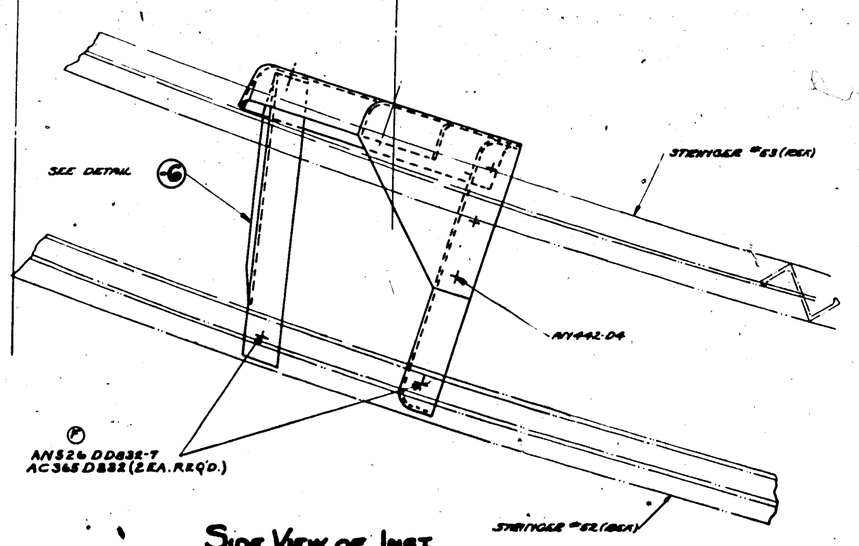




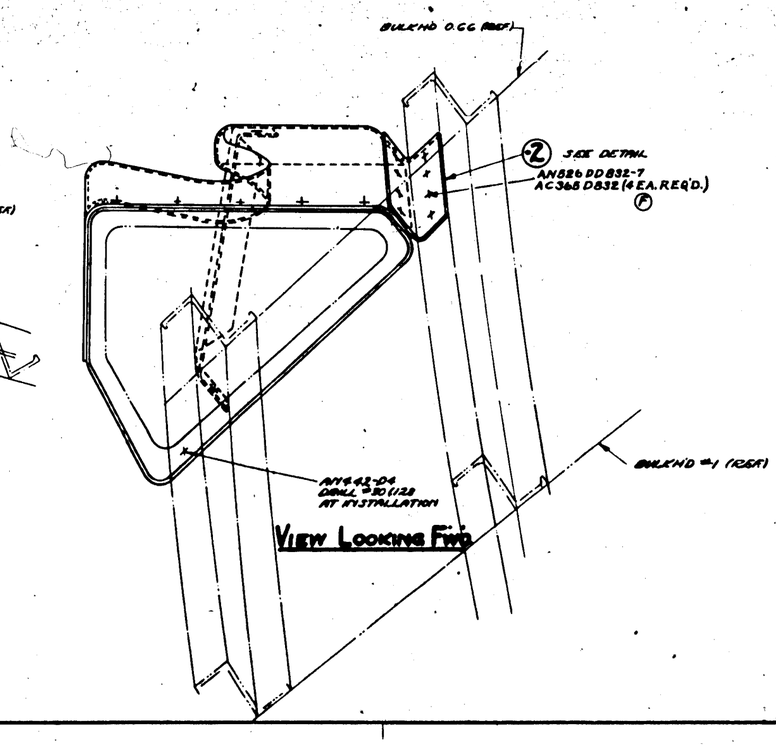
DETAIL -6
.064 AL ALLOY 24S0 ATTY ANGLE ALCOA SPEC. #2-6240 MAY ALSO BE MADE OF 040 AL ALLOY SHT (EAST.)

SUB ASSY -5
ALL RADII ALONG STRAIGHT FLANGES & UNLESS OTHERWISE SPECIFIED - RUNNING INTO 3/8 SPHERICAL RADII AT CORNERS

NOTE:-
(E) (1) HEAT TREAT ALL 2430 ALUM. ALLOY PARTS TO SPEC 3858 COND. T.
(2) MIN. EDGE DIST. OF ALL AN442-04 RIVETS TO BE 1/4
(3) PARTS -3 & -4 DESIGNED FOR DROP HAMMER
(4) -4 TO BE MANUFACTURED TO FIT -3
(5) MAKE INSTALLATION WITH GUN IN PLACE
(6) LOCATE THIS SOCKET .30 THAT GUN IS SPRUNG UNTIL TYPICAL SECTION THRU THAT ASSEMBLY CHECKING WINDSHIELD IS FORCED AGAINST STOP ON GUN TRACK.
(7) MAKE INSTALLATION WITH .30 CAL. M-1 SEAR GUN AND M-11 ADAPTER AND PASSES 3 DRILLS



SIDE VIEW OF INST. LOOKING TO STBD.



VIEW LOOKING FWD

H 303

DETAILS -6 ASSY — 2BF3080-6, 2BF3080-5

(F) AN526DD832-7 & AC365D832

PBY-3A	2BF1002						
PBY-5A	2BF1002						
PBY-5	2DF1002					2BF3080-4	1
PBY-4	2BF1002					2BF3080-6	1
PBY-2	2BF1002			AN442-04	1	2BF3080-5	1

REQUIREMENTS PER AIRPLANE				MAT	PARTS LIST PER ASSY
MODEL	NEXT ASSY	DWG	ST'D PARTS	DWG	PART NO.
23					

NAVY NOTED	NOTED	NOTED	X-P-2.4	
MATERIAL	SPEC	HEAT TREAT	FINISH	

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

NAME: SOCKET INST. BOW GUN STRINGER

SIZE: J — DWG NO. 2BF3080

LET	ALTERATION	DATE	BY
B	TRACED	2-20-43	
C	28F3085 REPLACED BY 28F3085 FOR "1241(28) TO "1243(31)	4-3-43	
D	Added PAY-S Parts, 2-24-7	7-8-43	
E	MAT'L NOTE FOR -3 READS "1/8 RIVET, 1/8 x 1 1/4 x 1 1/4 ANGLE -24S 2 IN LONG ALC DIA "78 P. SPEC. 4619-T FINISH: Z-P 20 F 20 REF. WT 0.06 4-24-43 Bell		

CA 8063

E.O. 8596

#137 ROPE SNAP

28F2127-4

SERVE WITH HEAVY LINEN THREAD

-7 SUB-ASSEM.

28F2260-8

28F2260-9

19

CUT 19/16 DIA. HOLES IN 28F2127-2 & -3 TO CLEAR WELD ON FITTINGS 28F2260-8 & -9 AND 28F2259-8 & -9

28F2127-2

28F2127-3

13

28F2259-8

28F2259-9

CUT 3/8 DIA. HOLE IN -8 FLANGE

B B

12

A A

SUB-ASSEM -4 SEE SECTION B-B

2

7/8

.051 AL. ALLOY SHEET 24S SPEC. 4710 COND "A" M.T. SR53 COND'T FINISH Z-P

TYPICAL SECTION OF -2 SAME AS 28F2127-2 & -3

NOTE:- BEFORE SPRING 28F2261 IS RIVETED TO LADDER THE CLEARANCE BETWEEN HOOK & SPRING (WHEN SPRING IS IN OPEN POSITION) SHOULD BE SUFFICIENT TO PERMIT FREE PASSAGE OF 28F1178 EYE BOLT.

4 1/16

4

1 1/8

11 3/8 (REF)

28F2127-8

1 1/2

22 3/8

11 3/4

31 1/2

52 1/4

INSULATE FITTING WITH FABRIC & MARINE GLUE

1 1/2

AN442-D4

28F2261

INSULATE SPRING WITH FABRIC AND MACHINE GLUE

AN425-D4 FLUSH HEAD TO BE ON OUTSIDE

AN442-D4

28F2127-13

INSULATE FITTING WITH FABRIC & MARINE GLUE

VIEW C-C
SCALE 12"-1-0"

12 (REF)

3/8

28F2127-8

12

12

1 1/2

-3 12" WIDE

COTTON THREAD SPEC: V-T-276

AN816-D6-6 Q7108A6 AC366-D632 18 PLACES SPACE APPROX. 3 7/8 APART.

-6 2 REQ.

MATERIAL –
-5 KHAKI DUCK
-6 SPEC: 24D4

SECTION B-B
SCALE 12"-1-0"

1/4

3/4

SECTION A-A
SCALE 12"-1-0"

-2 5 REQ'D

-3

AN442-D4

28F2127-8 REF.

E

MAT'L FOR -3 MAY BE:- 1. 75 A10T X 2, FINISH Z-P OR 2. K75P X 2, 24ST ALALLOY EXTR., SPEC. 4440-(T), FINISH Z-P

Q7102A6 2

#137 Rope Snap 1
28F2127-4 1
Parts used on Sub-Assem. -7

-6 2
28F3088-6 1
Parts used on Sub-Assem. -8

-9 1
28F2260-8 1
-9 1
28F2259-8 1
28F2261 1
28F2127-13 1
-8 1
28F2127-2 1
-3 1
28F2127-3 1

#MFG BY NORTH & JUDD MFG. CO. NEW BRITAIN, CONN.

USED ON "1213(1) TO "1240(28) INCL & "1244(32) TO "1245(33)

PARTS NOS. -2, -3 & -7 USED ON "1241(29) TO "1243(31)

	PART NO.	REQ'D	PART NAME	MAT'L	PARTS LIST PER ASSY
-2	28F2127-2	1	LADDER SIDE & FLANGE	24S-T3	
-3	28F2127-3	1	LADDER SIDE & FLANGE	24S-T3	
-7	28F2127-7	1	SUB-ASSEM.		
-8	28F3088-8	1	SUB-ASSEM.		
-9	28F3088-9	1	SUB-ASSEM.		

REQUIREMENTS PER AIRPLANE | MAT'L | PARTS LIST PER ASSY

MAT'L	NOTED	NOTED	NOTED	28L		C.M.
MATERIAL	SPEC	HEAT TREAT	FINISH			

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

NAME: LADDER ASSEM-FURN-REAR ENTRANCE

SIZE J | DWG NO. 28F3095

H 304

BUREAU CHANGE INCORPORATED
CHANGE OF 8-10-38 (LETTER "2B12")

LET	ALTERATION	DATE	BY
W	TRACED	11-8-38	
X	ADDED PBY-5 MKG.		
Y	MKG. WAS SHOWN AS -6 & -7	11-1-40	
Z	ADD ASSY PARTS, ADD ASSY DWG ON SEP DWG - 82		
AA	ADD ASSY DWG A 2483		
	ADD CHG. 47810 TO MAT'L SPEC. 47810 CHG. A TO MAT'L		
	ADD MKG. - 41 - A. SUBALTER-43		
	ADD NOTE SHOWN.	11-1-40	
AE	ADDED -10 & -11 ADDED -12 ASSY.	12-12-40	
	ADD PARTS & TO ASSY.		
AB	-10 AND -11 (CHG A) ALTERING	1-2-41	
AC	ADD SEE CHART ON ASSY DWG	1-2-41	
AF	ADDED -6E & -6L, ADDED NOTE-24	1-14-41	
AG	-3 MATERIAL WAS CHG A ALLOY SHEET	1-14-41	
AH	ADDED TO -6E-7 & TO 2	1-27-41	
	FLANGE 7/16 BLND 7/16		
AJ	-8-9 & -12, 2-S30, COND A, HT		
	2483 WAS 2487 COND T, HT SEE	2-20-41	
AK	-41 REPLACED -10 FOR PBY-5		
	C.N. 8178 MKG. WT CHG	4-23-42	

E.O. 18304
E.O. 17388
E.O. 20989
E.O. 11582
E.O. 27621
E.O. A-987
E.O. A-987
E.O. A-987
E.O. 46.2803
PBY-5 & 5A, 6A, 6B, 6E-5 & 6A

DETAIL OF -18 & -19 OPP.
1 - 3/4 x 1.070 AL. ALLOY ANGLE
ALCOA DIE # 12388
SPEC. 46A9 COND. T

DETAIL OF -28

DRILL #18 (.169)

PRICK PUNCH

3/32 ALL R.

DETAIL -15
.091 AL. ALLOY SHEET
SPEC. 47A10 COND. T (ALLOY 24-T)

PRICK PUNCH
2 PLACES

(13) .051 AL. ALLOY SHEET
SPEC. 47A10 COND. A
ALLOY 24-S0
H.T. - SR-53

(14) 3/8 x 3/8 x 1/16 AL. ALLOY ANGLE
ALCOA DIE # K-13624
SPEC. 46A9 COND. T

THESE PARTS TO BE
RIVETED TOGETHER
AT FINAL ASSEM.

DETAIL -13 & -14

DRILL #18 (.169)

2 ALIKE

(8) .051 AL. ALLOY SHEET
SPEC. 47A10 COND. A
ALLOY 24-S0
H.T. - SR-53

(9) 5/8 x 3/8 x 1/16 AL. ALLOY ANGLE
ALCOA DIE # K-13624
SPEC. 46A9 COND. T

PRICK PUNCH

3/32 ALL R.

THESE PARTS TO BE
RIVETED TOGETHER
AT FINAL ASSEM.

DETAIL OF -8 & -9

DRILL #18 (.169)

(16) .064 AL. ALLOY SHEET
SPEC. 47A10 COND. A
(ALLOY 2480)
H.T. SR-83

JOGGLE AS SHOWN
ABOVE

DETAIL -16

(23) 3/8 x 3/8 x .040 AL. ALLOY ANGLE 5 1/2 LG. (24ST)
ALCOA DIE K-6240 SPEC. 46A9 COND. T
10 ON -2 ASSEM.
7 15/16 ON -42 ASSEM.

(24) 3/8 x 3/8 x .040 AL. ALLOY ANGLE 8 LG. 24ST
ALCOA DIE K-6240 SPEC. 46A9 COND. T
ON -42 ASSEM.

(26) ON -2 ASSEM.

(25) 3/8 x 1/2 x .035 AL. ALLOY ZEE 3 3/8 LG. 24ST
ALCOA DIE K-1886 SPEC. 46A9 COND. T
ON -2 ASSEM.

(27) 3/8 x 1/2 x .035 AL. ALLOY ZEE 5 1/2 LG. 24ST
ALCOA DIE K-1886 SPEC. 46A9 COND. T
ON -42 ASSEM.

(22) ADD

AN442D4

1 17/32 DIA HOLE
#18 (.169) HOLES
JIG DRILL OR
PUNCH HOLES

(4) .064 x 3 1/2 x 3 1/2 PLATE
ALC. 138-T
47A8 COND. T

(46)

(20) (AA) (28) (Z)

(5)

12 3/8 ON -2 ASSEM.
12 ON -42 ASSEM.

8 ON -2 ASSEM.
8 3/8 ON -42 ASSEM.

YC ASSY 1/2 ARMLE

(46)

DRILL 3/16

BEND FLANGE OF CHANNEL AS SHOWN
IN SECTION A-A THIS DISTANCE

AN442D4

A

A

SECTION A-A

LOCATION ON -2 ASSEM.

LOCATION ON -42 ASSEM.

AN442D4 (4)
(AF)

AN515-8R8
AC365-8832

DETAIL -2 & -42 CHANNEL ASSEMS.
SCALE - 6" - 1'-0"

(20) .064 AL. ALLOY SHEET
SPEC. 47A10 COND T
(ALLOY 24-T)

(4) 1 x 1 x 3/16 AL. ALLOY ANGLE
ALCOA DIE # 734 FT.
(5) OPP SPEC. 46A9 COND T
(ALLOY 24-T)

(22) .064 AL. ALLOY SHEET
SPEC. 47A10 COND. A
(2) (ALLOY 2480)

(3) .040 AL. ALLOY SHEET
SPEC. 47A10 COND. T
(AA) (ALLOY 24ST
(24)

1 INSIDE

3/16 BEND & RELIEF RADII

DETAIL -47
IDENTICAL TO -10
EXCEPT AS SHOWN.

FINISH CODE
Z - ANODIZE
P - PR 7 PRIMER
C - CHROMIC PRIMER
BLK - DULL BLACK ENAMEL

1/8 R

(M) (Y)

.064 AL. ALLOY SHEET
SPEC. 47A10 COND. A
(ALLOY 2430)
H.T. SR-53

DETAIL OF -6 & -7 OPP.
SCALE 12" - 1'-0"

DRILL #18 (.169)

.040 AL. ALLOY SHEET
SPEC. 47A10 COND. A
(ALLOY 2480)
H.T. SR-83
(2)

DETAIL OF -10 & -21
SCALE - 12" - 1'-0"

(21) IS SIMILAR TO -10
EXCEPT FOR THIS CORNER CUT
OFF AS SHOWN BY DOTTED
LINE.

1/16 ALL R.

DRILL #18 (.169)

(11) .040 AL. ALLOY SHEET
(12) SPEC. 47A10 COND. A
(ALLOY 24-S0)
H.T. SR-53
(N)

DETAIL OF -11 & -12 OPP.
SCALE - 12" - 1'-0"

FINISH - Z-P-2 COAT
-6, -7, -8, -9, -13, -14, -15, -16, -18, -19
- Z-P-2 COAT, FOR -2 ASSEM & -42 ASSEM
SEE RELEASES

PBY-5	ASP 4317
PBY-5A	1st & N.
PBY-5B	1st & N.
PBY-6	2nd Dwg
PBY-6A	1st & N.
PBY-6E	2nd Dwg
PBY-7	2nd Dwg
PBY-8	2nd Dwg
PBY-9	2nd Dwg

ASSEMS.	-2	-42	-11
-47			
-6			
-7			
-8			
-9			
-10			
-11			
-12			
-13			
-14			
-15			
-16			
-18			
-19			
-21			

2nd Assy
1st Assy

DESIGNED	DATE	CK.	MODEL	NEXT ASSY.	REQ	ST'D PARTS	
DRAWN	DATE	APP. BY					
CHECKED BY	DATE	APP. BY					
REQUIREMENTS PER AIRPLANE							
				DATE	PARTS LIST PER ASSY		

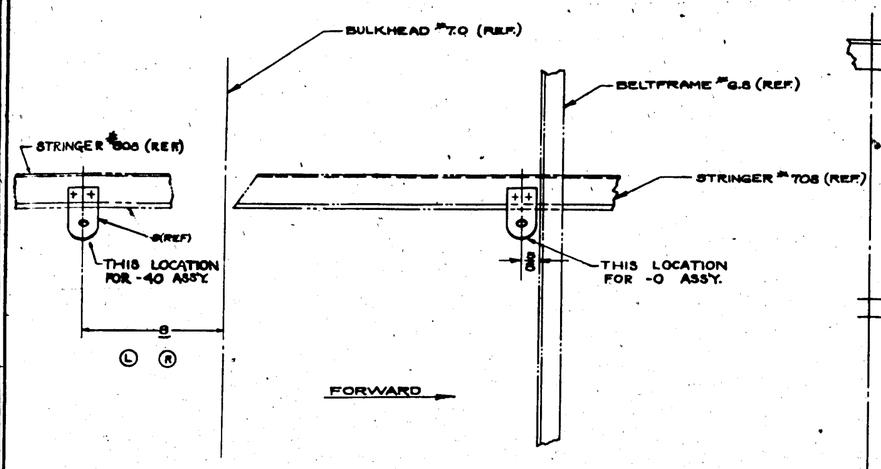
A.C.					
NOTED	NOTED	NOTED	NOTED	NOTED	
MATERIAL	SPEC	HEAT TREAT	FINISH		

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO

NAME BRACKETS - FURNS.
PILOTS INSTRUMENT PANEL

SIZE J DWG. NO. 28P3008

H 305



VIEW SHOWING LOCATION OF -8 (REF.)

INCORPORATES PER F.S.M. CHANGE NO. 27

LET	ALTERATION	DATE	BY
C	[illegible]	[illegible]	[illegible]
D	ADDED [illegible]	[illegible]	[illegible]
	[illegible]		
E	ADDED STOCK [illegible]	[illegible]	[illegible]
	[illegible]		
F	[illegible]	[illegible]	[illegible]
G	[illegible]	[illegible]	[illegible]
H	ADDED [illegible]	[illegible]	[illegible]
J	[illegible]	[illegible]	[illegible]
K	[illegible]	[illegible]	[illegible]
L	IN VIEW SHOWING LOCATION OF -8 II DIM WAS 13 NO WT. CHG.	[illegible]	[illegible]
M	ADDED STOCK 1/4 DIA x 5/8 LG TO DETAIL OF -8 NO WT. CHG.	[illegible]	[illegible]
N	[illegible]	[illegible]	[illegible]
P	ALT. MATL. NOTE #2 ADDED ADDED RIGHT TO PER AIRPLANE FOR PBY-5, 5A NEXT ASS'Y SERIAL NO WT. CHG.	[illegible]	[illegible]
Q	ADDED NOTE: IT IS PERMISSIBLE TO USE THE FOLLOWING ALTERNATE: AN515-8-7 TO REPLACE AN515-8B-7 WT. CHG. NEG.	[illegible]	[illegible]
R	8 DIM. WAS 11. NO WT. CHG.	8-24-43	[illegible]

DETAIL OF -6 HOOK
MATL.-AL. ALLOY ROD (2450)
SPEC. 46A9 COND. A
H.T.-SR9S COND. T
STOCK 1/4 DIA x 4 1/8 (M)

DETAIL OF -8
AL. ALLOY SHEET (2487) SAE 53548
SPEC. 47A10 COND. T

AN442-D4 RIVET (2 REQ'D)

-6 SEE DETAIL

STRINGER Sta 708 (REF.) FOR -0 ASS'Y.
" Sta 608 (REF.) " -40 "

-8 SEE DETAIL

AN931-5-9 GROMMET

AN515B8-7 SCREW
AN960-8 WASHER
AN935-8 LOCKWASHER

28F4066

-10 SUB ASS'Y.

CEMENT -7 HOSE TO 28F4068

(N) (F)

-7 1- 1/2 I.D. X 1/8 WALL X 40 LONG "HYFLEX" (VINYL TUBING) OR EQUIVALENT.
2- ALTERNATE MATERIAL: 1/2 I.D. FLEX. RUBBER HOSE 40 LONG. SPEC. COMM. IRJ (ORDER BAY STATE C.I.) MFD. BY BOSTON WOVEN HOSE & RUBBER CO. OR EQUIVALENT) MAY BE USED IN PLACE OF (VINYL TUBING)

FOR -0 ASS'Y.
LOCATE OUTLET FITTING MIDWAY BETWEEN STRINGERS AND APPROX. 8" FWD. OF BULKHEAD Sta 7.0

FOR -40 ASS'Y.
LOCATE OUTLET FITTING MIDWAY BETWEEN STRINGERS AND APPROX. 12" AFT OF BULKHEAD Sta 7.0

BELTFRAME Sta 6.8 (REF.)

GBOT-D14-8 CLAMP
AN520-10-10 SCREW
AC365-1032 NUT
WRAP TAPE AROUND HOSE UNDER CLIP IF NECESSARY.

STRINGER

STRINGER Sta 736 (REF.) FOR -0 ASS'Y.
" Sta 632 (REF.) " -40 "
" Sta 831 (REF.) " -40A "

STRINGER Sta 788 (REF.) FOR -0 ASS'Y.
" Sta 634 (REF.) " -40 "
" Sta 833 (REF.) " -40A "

** FOR Sta 29-31 (1241-1245) ONLY

PORT SIDE LOOKING AFT

-40A IS IDENTICAL TO -40 BUT INSTALLED ON R.H. SIDE OF A/C

BULKHEAD Sta 7.0 (REF.)

FINISH: -Z-P-EGP- METAL PARTS ONLY (AFTER WELDING)

NOTE: IT IS PERMISSIBLE TO USE THE FOLLOWING ALTERNATE:
(O) AN515-8-7 TO REPLACE AN510-8B-7

SECTION A-A
SCALE 12"=1'-0"

(1) SUB ASSY
(2) 1/2 O.D. x .049 x 1 1/2 ALUM. TUBE SPEC. 44T19 TEMP H.H.
(9)
(12) .032 ALCLAD PLATE 3.00 x 1 1/2 LG SPEC. 47A18-T
1/8 BEAD
WELD
(5) 3" O.D. x 1/2 I.D. x 1/16 ALUM. PLATE SPEC. 47A2 TEMP. 1/2 H.
INSULATE WITH FABRIC AND MARINE GLUE
SKIN (REF.)
(H)
(3) 1/32 DUPRENE SHEET
28F4098 (OUTLET)
Q 4305-D4 RIVETS MF'D. HEADS OUTSIDE SPACE AS SHOWN.
BOTTOM VIEW
AFT

H 306

NOTED	NOTED	NONE	NOTED		
CONSOLIDATED AIRCRAFT CORP.				RELIEF TUBE INSTALL. FORMS.	

LET	REVISIONS & ENGINEERING CLASSIFICATIONS	DATE	BY
		S-68	
A	ADDED 28F4083 & -10 ANGLES		
B	ADDED -16 & -17 ANGLES		
C	WAS 8 EACH REQD.	5-22	WSH
D	NOTES CHANGED	5-22	WSH
E	ADDED DIM 3.75 IN VIEW C-C	11-1-60	WSH
F	28F4079-10 1/16 WAS -10 (2)	11-1-60	WSH
G	ANSI0-A-B WAS ANSI0-A-7	11-1-60	WSH
H	CREATED -58 ASSEMBLY		
	SAME AS -0 EXCEPT -14 & -15		
	ADDED REQ. AT -18 & -19 RESPECTIVELY	7-1-66	SMS
J	ON FACE: ADDED DETAIL		
	DET -20 REMOVED DIM 4 3/8		
	-8 REPLACED WITH -19 FOR		
	-58 ASSY. ADDED NPC F55 AUTH		
	PER EOA -58 ASSY. REMOVED		
	NOTES REFERRING TO -58		
	ASSY. REMOVED -5 & -6 FROM		
	B/MLE FACE OF DWG. ANSI/		
	MS-3645 ANSI0-26-5 CAD		
	WAS ANSI/A-06 AVOL	9-24-71	LOZ
K	4 RIVETS WAS 8 RIVETS,		
	7/16 WAS 5/16, 3/8 WAS 3/16,		
	1 MKS 1 1/16 - NTG INC ACC	10-26-71	LOZ
	ADDED TOFACE OF B/MS TO B/M		
	ADDED NOTE: "SPOT WELD ... TO ... BEFORE ASSEMBLY TO ... FIRST"		
	SPACING 9" APPRX W/ MINOR CLR	2-21-73	APPROVED

EO 10002
C.O. 8079

EO 23464
E.O. 29013
E.O. 29211
PO W 7083 M
OA-10 FB9SA 28 3496

EOA M298
PER 2 SA
28-3 MARKS
OA-10

EOA 98434

NCR 266

SECTION C-C
FULL SIZE

SECTION A-A

-0 ASSY ONLY

VIEW B-B
SCALE: FULL SIZE

NOTES

THIS LADDER SAME AS 28F3095 EXCEPT TRIANGULAR PORTION & LOCATION OF 28F2259-8, -9 (REF).

RIVETS:
ALL RIVETS MARKED Ⓒ ARE AN442-DS.
BALANCE ARE AN 442-04

MATERIAL:
-101, -102, -25-3 .051 AL ALLOY SPEC 4340 COND A HT SP 53 COND T
-18, -4 MINIMUM DUCK - SPEC 24 D4
Ⓔ -104, -8, -9 .064 AL ALLOY SHEET SPEC 4744 COND HT SP 53 COND T
-105, -102, -19 .051 AL ALLOY SHEET SPEC 4744 COND T
-11, -14 .064 AL ALLOY SHEET SPEC 4744 COND T
-12 .045 AL ALLOY SHEET SPEC 4744 COND T

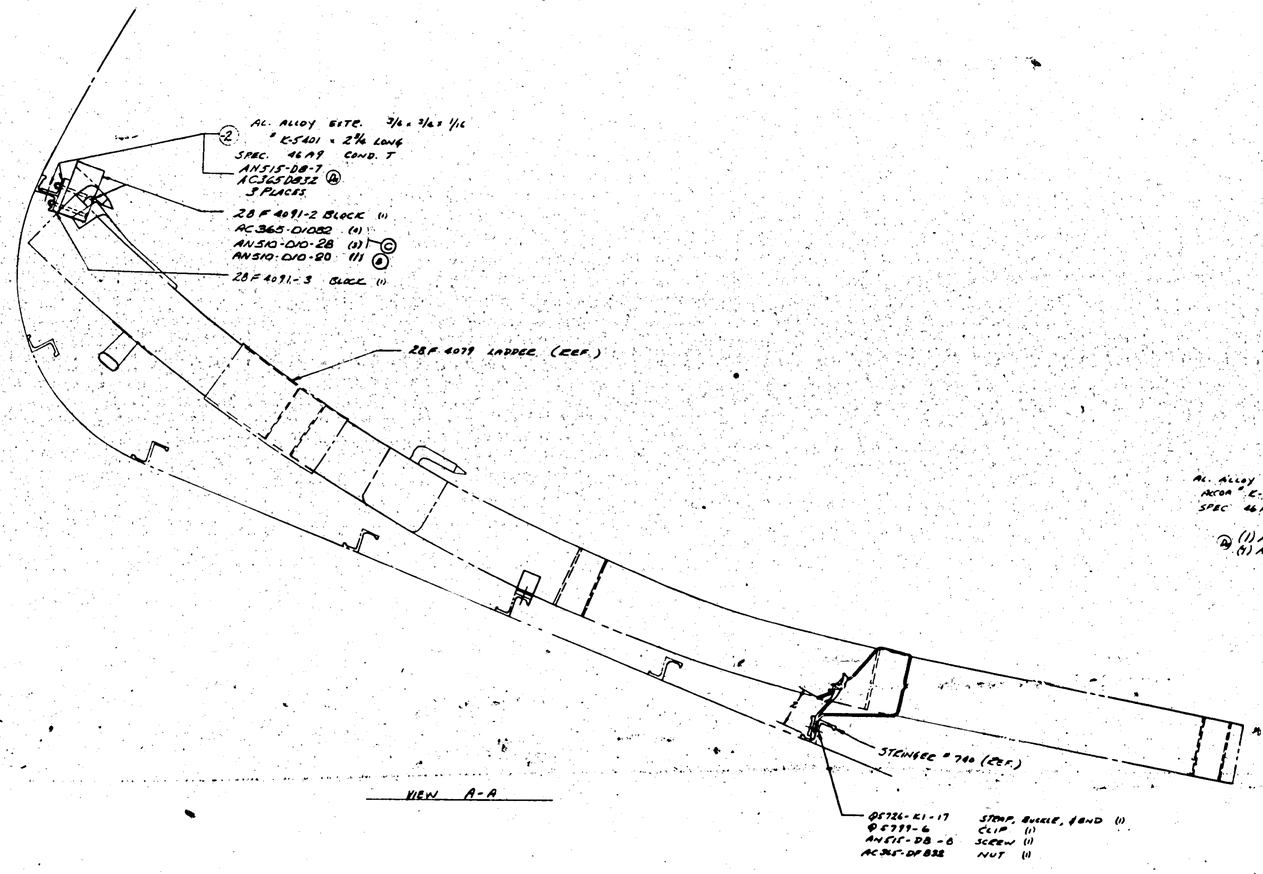
NOTE
"SPOT WELD 28F7679 1/16 & 28F7680 1/16 TO -18 L/H IN -58 ASSEMS." ✱ SPACING APPROX 28F7679 1/16 & 28F7680 1/16 TO BE ASSEM FIRST.

FINISH CODE
Z MAGNE TREATMENT
P PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE
BL - BLACK LACQUER
GP - GREEN PRIME

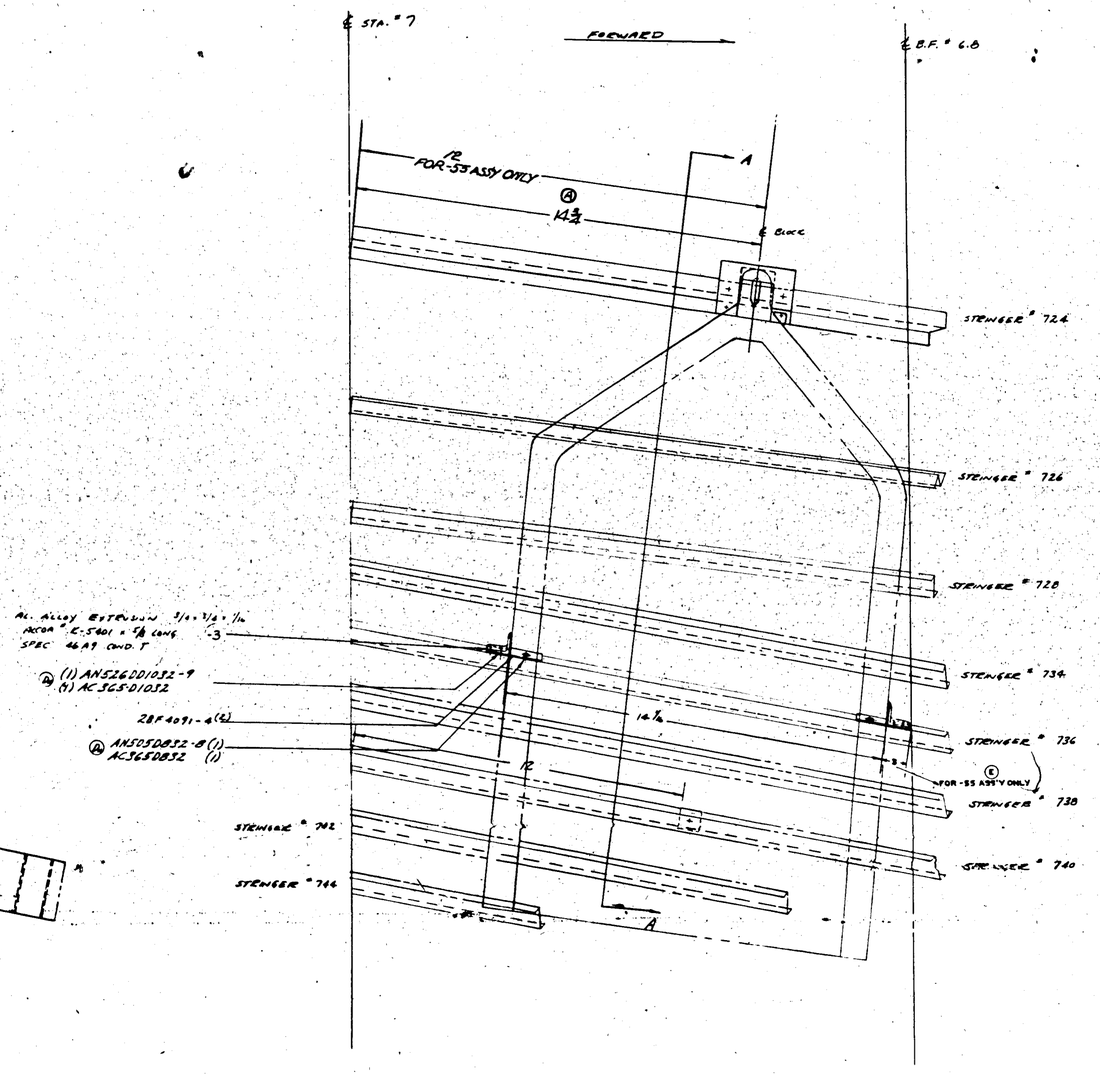
| | | |

LET	ALTERATION	DATE	BY
	E.O. 21933		
A	(CANCELED) : BP-40 WD FOR 28-5 NOT ADDED - 35 AIS (AS DIM WAS 1 1/4 ON -35 ONLY)		
	E.O. 25109		
B	AN 5429A-4-11 WAS AN 5429A-4		
	E.O. 25109		
C	ADDED DID. ID WAS BUSHING ID.		
	ADDED DID. III WAS BUSHING ID.		
	SAME BUSH. WAS AC 9668-32		
	PBY-5 28-5 NAS		
D	BRACKET ASSY. -25 (2 PLACES) WITH AN 815-08-7 & AC 365-1032-7 PLACES	6-1-49	
	BRACKET ASSY. -23 (2 PLACES) WITH (1) AN 525 D 1032-9 & (1) AN 525 D 1032-7		
	BRACKET ASSY. -21 (1) WITH AN 525 D 1032-8 (1) & AN 525 D 1032-11 ON R.H. & L.H.		
E	ADDED 3 DWG. NO WT CHG	6-1-49	

E.O. A37588



VIEW A-A



H 308

VIEW LOOKING OUTBOARD FROM ℄ SHIP : PORT SIDE

FINISH NOTE :—
FINISH -2 & -3 ONLY : 2-P-2 GP

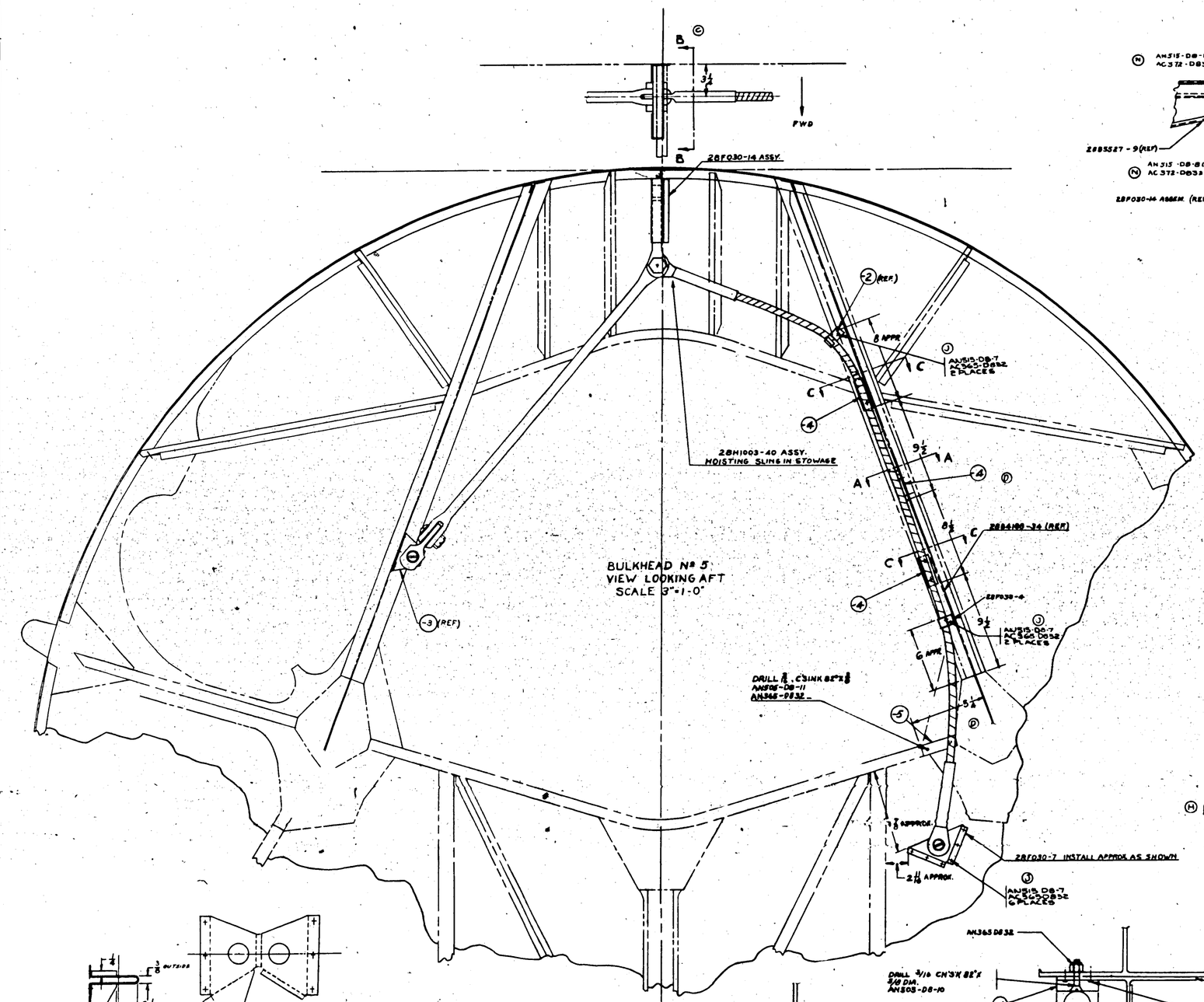
FINISH CODE	
Z	ANODIC TREATMENT
P	P-77 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMIUM PLATE

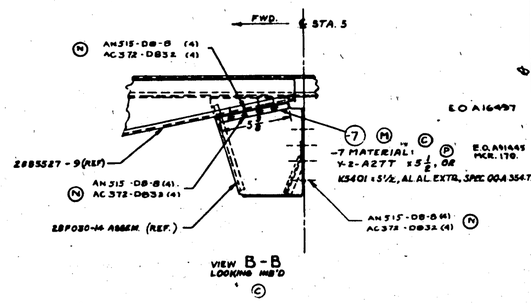
GP-GREEN PRIME

C.86677 1-150
C.70496 & C.91876-1-89

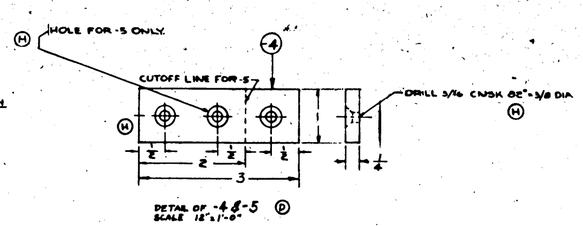
| | | |

LET	ALTERATION	DATE	BY
A	CHANGED -17 ASSY'S NUMBER		
	NOTE TO PROC. DEP.	6-4-41	CRITZ
B	AC RATED -13 ANTY.	9-15-41	PAUL FLEY
C	ADDED VIEW B-B TO FACE OF RIB. ADDED -7 TO FACE 3 RIB.	9-18-41	HORN
D	ADDED LOCATING RIBS FOR -5	9-18-41	HORN
	5-E REVISED SEC A-A ADDED		
	SEC C-C & DETAIL OF -46-5		
	REMOVED NOTE "FORM 8 &		
	LENGTH & LOCATION TO BE DETERMINED ON INST. CH		
	FACE OF RIB.		
E	ADD DIMS AND CHANGE AN 426 (AN-DS598)	11-4-41	WILLIAMS
F	ADDED NEW ASSEM SYMBOL	"	"
G	ADDED NEW ASSEM SYMBOL	"	"
H	LOCATED HOLES IN -46-5	3-20-42	HORN
	ADDED NOTE "5 HOLES ONLY"		1ST
	DRILL 5/16 — DIA ALSO DIM 1/2 (3)		
	WT CHANGED		
J	ADDED PART AC565-DB32 WAS 532-61		HCR
	AU442-04, ADDED ANJ3-		HART
	4A, AC565-0103 2AU3960-4A		SMH
K	1A DIM WAS 2 1/4, WT CHG WAS	9-28-42	Mac Cain
L	ADDED ASTERISK (*) ON ITEM TO 28H1003-62 & IN REQ PER		
	AIRPLANE BLOCK TO "-31"		
	PBY-5A? ADDED NOTE "C.N.X.S. 13595 ONLY---(REF. S.O. 966-2-1)"		
	WT CHG -28.1# THIS SHEET; 1457.9 LBS.	4-2-43	BRAMLETT
M	ON FACE UPPER RIGHT HAND CORNER FOR -5 REPLACED "A SIDE" WITH "-7 MATERIAL: Y-2-A27T 1/8 x 1 1/2 WT CHG +0.6#	4-7-43	HART
N	AN 515-DB8 (18) AC 372-DB3A		
	(4) WAS AN 426-DA6 (8 REQ'D)		
P	AN 426-DA6 (8 REQ'D) ON VIEW B-B & B/N) WT CHG. 0.6#	9-11-43	HART
P	TO BACK AT CANN OUT FOR -7		
	ADDED "OR X4201 .63 1/2 AL AL EXTR SPEC 00 A-334-T" NO WT CHG	9-16-43	HART

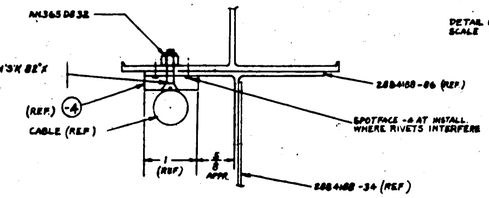




VIEW B-B
LOOKING INB'D
©



DETAIL OF -46-5 (D)
SCALE 12"=1'-0"



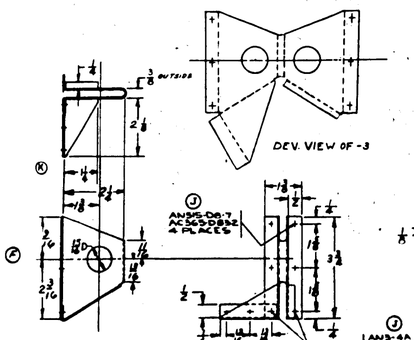
SECTION C-C
SCALE 12"=1'-0" (D)

NOTES: MAKE -46-8 FROM ¼ LAMINATED PHENOLIC SHEET SPEC. 17PS GRADE FP6 (D)

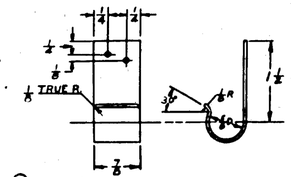
FINISH -26-3 ZP-2GP -46-5 NONE.

FINISH CODE
Z ANODIC TREATMENT
P PAINTED
AP PAINTED OVER ANODIC
C CADMIUM PLATE

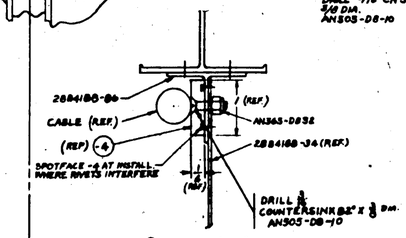
GP-GREEN PRIME



(-8) BRACKET MAKE FROM .051 AL ALLOY 24 S0 SPEC. 47A10 COND A - HT BR 53 COND T
SCALE 6"=1'-0"



(-2) 040AL ALLOY CLIP
SPEC. 47A10 COND. T
SCALE 12"=1'-0"



SECTION A A
SHOWING INSTALLATION OF -6 RUBBING STRIPS
SCALE 12"=1'-0" (D)

DEV. VIEW OF -3

UNMARKED BEND RADII 3/32

(L) *NOTE:
C. N. NXS 13595 ONLY (1) 28H1003-62 REQ'D FOR EVERY 4TH AIRPLANE. (REF. S.O. 966-2-1).

| | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
V	ADD 1/4 REF. 2.4 & 10 CONN. TO FOR - 5R WAS 4 & 8	2-8-54		A	REVISED DIMENSIONS (SEE F.O. # 1080) ADDED ASSEMBLY (1 PIECE)	2-25-59	
	CORR'T. WT. CHG. NIL.	2-25-54	MARTIN	H N	CHANGE "Rad TO R440-A3-2-28 F2-4		
					-25,-26,-28,-27,-28 AS SHOWN		
				G	-18 & F2 WAS 1/2 (TYP) (SHEET 2)		
					CHANGED VIEW IN DETAIL -18		
					-30 & F2 WAS WAS 1/2 (SHEET 2)		
					IN SEC. F-F -6 WAS -7 IN SEC 3-3		
					WITH DIM. WAS 3 3/8 & REF. IN		
					SEC. C-C -8 & WAS -10 (SHEET 2)		
					ADDED -10 TO DETAIL -7 (SHEET 2)		
					-8 & F2 WAS 3/4 & 3/8 (SHEET 2)		
					ADDED NOTE TO SHOW ALL		
					FOR FOOT VIEW IN DETAIL		
					-27 & 28 WAS 6 1/2 & 7 1/2 IN		
					SHEET 2 & -6 (SHEET 2) ADDED -7 & -8		
					BEND RADII	3-2-61	
				M	THK AT -28 DETAIL .36 WAS 1/2	8-14-61	
				K N	ON SECT BB THK WAS 1/2	8-31-61	
					-10 WAS 3/8 (WAS 3/16) & 5/16		
					WAS 5/16 AT DETAIL OF -28		
				P	ADDED NOTE AT SECT X-X	9-14-61	
				R	-6, -7, -10, -18, -28, -30 & -31 WAS		
					1/2 R (TYP) WAS 3/8 R (TYP)		
					ALL 5.0 & 6.0 MATERIAL SHALL BE		
					L-1 HEAT TREATED WITH CAD. WELD.	3-27-62	
				H	IN SEC C-C -8 (REF) WAS 3/8 (REF)		
					R.H. SEC X-X & 1/2 (REF) WAS 3/8 (REF)		

DETAIL OF -28

SECTION H-H

DETAIL OF -27

SECTION -L-L

DETAIL OF -18

NOTE: - EXCEPT WHERE NOTED, WHEREVER ⊕ IS SHOWN RIVET AN442-D4 ALL OTHER ATTACHMENTS ARE SPOT WELDS SPACED APPROX. 1"O.C.

NOTE: Z-9-2 BOX ASSEMBLY BEFORE INSTALLING DOOR.

Ⓒ ALL BEND RADII 1/8 UNLESS STATED

Z= ANODIZE
P-727 PRIMER
GP= GREEN PRIMER

SECTION K-K
SCALE 12"=1'-0"

ASSEMBLY OF DOOR & LOCKER

NOTE: BEFORE ASSEMBLING DOOR ON LOCKER RIVET & SPOTWELD 28F4123-6 (REF) TO ANGLE 28F4123-52 (REF) AS SHOWN

SECTION -P-P
SCALE: 12"=1'-0"

SECTION A-A
SCALE: 12"=1'-0"

SECTION M-M
SCALE: 12"=1'-0"

SECTION N-N
SCALE: 12"=1'-0"

SECTION B-B
SCALE: 12"=1'-0"

SECTION -C-C
SCALE: 12"=1'-0"

SECTION -D-D
SCALE: 1"=1'-0"

SECTION -E-E
SCALE: 12"=1'-0"
TYPICAL CORNER ANGLE

Ⓑ NOTE: ALL 5.0 MATERIAL HEAT TREAT SPEC. (SE-55) COND-T

SECTION -F-F
SCALE: 12"=1'-0"

SECTION -G-G
SCALE: 12"=1'-0"

LET	ALTERATIONS	DATE	BY	LET	NOTATIONS	DATE	BY
				A	ENTERED PRODUCTION AT P-38		
				B			
				C			
				D			
				E			
				F			

SIDE VIEW OF INSTALLATION LOOKING TO STARBOARD

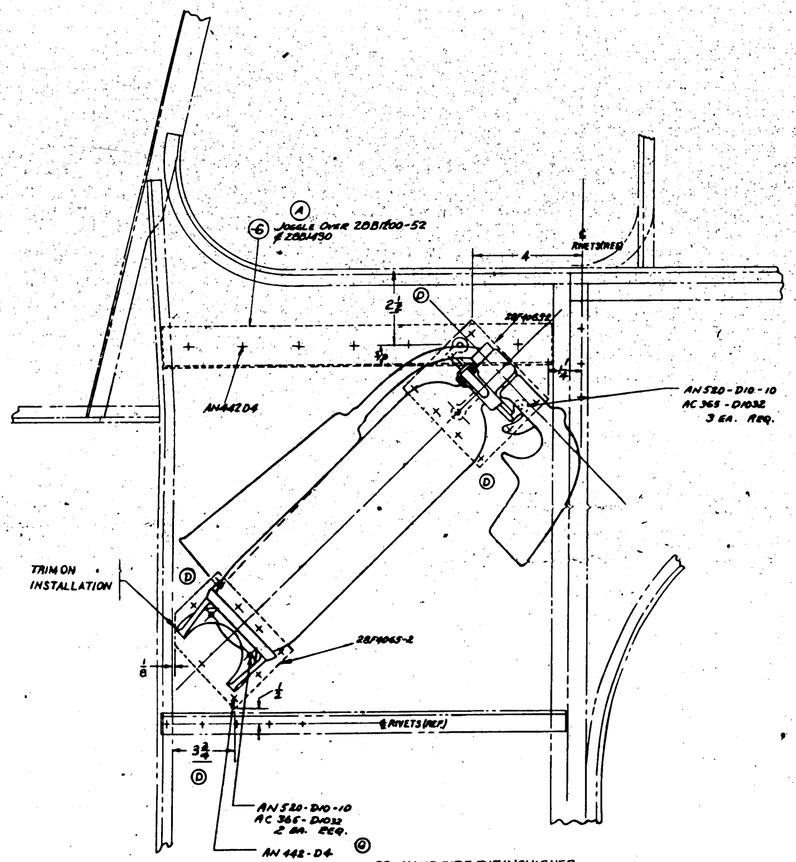
STBD SIDE LOOKING FORWARD

SUB-ASSEMBLY

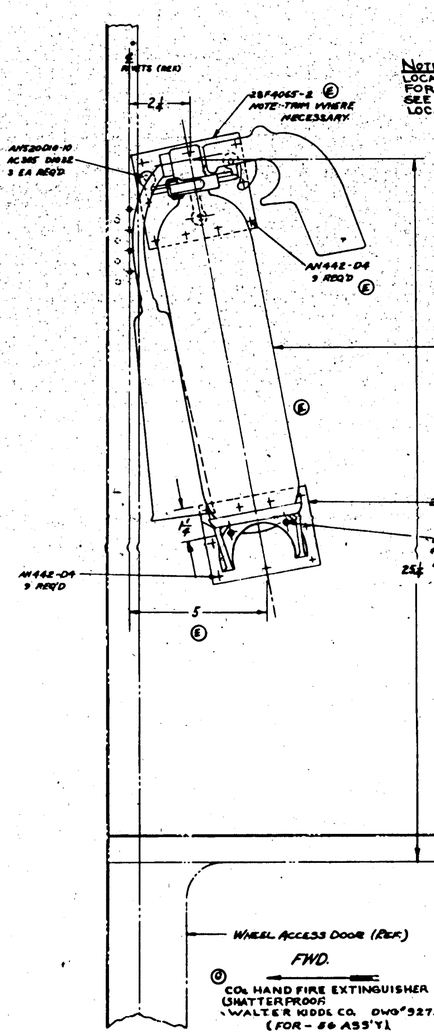
NOTES ~
(1) MIN. EDGE DISTANCE OF ALL AN426-D4 RIVETS 5/16
(2) MAKE INSTALLATION WITH GUN IN PLACE.
(3) LOCATE THIS SOCKET SO THAT GUN IS SPRING INTO STOWAGE POSITION, SUCH THAT REVOLVING CIRCULAR CIRCULAR WINDSHIELD IS FORCED AGAINST STOP ON GUN TRACK.
(4) ALL RIVETS AN426-D4 RIVET .130 (.128) EXCEPT AS NOTED.
(5) 1/8 BEND RADII EXCEPT AS OTHERWISE NOTED.

CHANGE "C" RUSH RELEASED 10-30-41

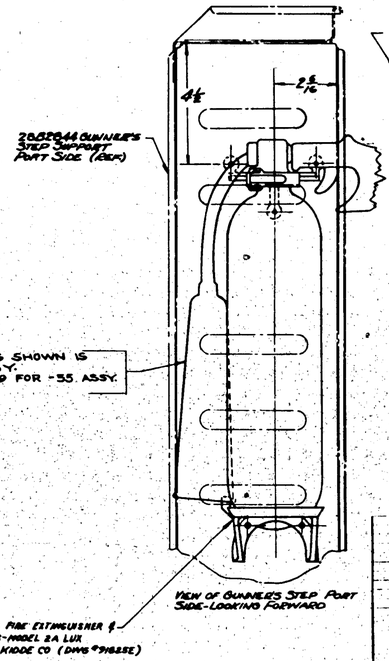
LET	ALTERATION	DATE	BY
A	ADDED C.S. & FWD. MISC. & ADDED -5 & -55 ASSY.		
B	ADDED -56 ASSEMBLY		
C	AN MS21042L4 WAS AN365-428A NUT WAS AN315-4		
D	ON SHT. 2 ADDED "ITEMS NOT SHOWN ON THIS DRAWING"		
E	ADDED NOTE "CO2 HAND FIRE EXTINGUISHER (WALTER KIDDE CO. DWG 92756) MOUNTING BRACKETS FOR FWD OF BLK'D 2.0 WHERE INSTALLED"		
F	REVISED REQ'TS "AIRP BLK. 10 RH YOKE" "LH HAND - "DIRECT" ADDED "C.AC" "EST" & NOT CHG		
G	ADDED NOTE "CO2 ---- 36A0455" C.PLATE -36A0455Y. REVISED RADIO PNL AND BLK. NOT CHG		
H	REMOVE FWD FILL OF DWG & ADD C.AC. S.B.A.-B. WALTER KIDDE		
J	ADDED -55 ASSY.		



VIEW OF PORT SIDE LOOKING FORWARD AT BLK'D 2.0



NOTE:
LOCATION AS SHOWN IS FOR -0 ASSY.
SEE 28F5029 FOR -55 ASSY. LOCATION.



FINISH CODE
Z
V
AP
C
CP COLOR PRIME

PART NO.	STOCK	MATERIAL	SPEC.	LIST 1 REQ	LIST 2 REQ	LIST 3 REQ	LIST 4 REQ	LIST 5 REQ
PARTS LIST FOR ASSY.				-0	-55	-56	-6	-8

CO2 HAND FIRE EXTINGUISHER CAPACITY 2-21 WALTER KIDDE (DWG 92756) CAC SET 9

28F5029-2
28F5029-0

AN365-D1032	13	13	13
AN442-D4	9	9	9
AN515-8R8	2	2	2
AN520 D10-10	5	5	5
QBIO D6-16	5	5	5
AN960-8 WASHER	2	2	2
AN960-10 WASHER	2	2	2

NAVY MARK: 2P-GP-6 ONLY
HEAT TREAT / FINISH

NAME: INSTALL.-RUN.- HAND FIRE EXTINGUISHER

CONSOLIDATED AIRCRAFT CORP. San Diego Division

SIZE J | 28F4154

H 312

LET	ALTERATIONS	DATE	BY
A	B1/8 DIAM. WAS 1 3/4 X 2 1/2 RAD. WITH 2 1/2 DIA. CUTOUT FOR 4 3/4 DIA.		
B	ADDED BOLTS		
C	REMOVED 1/8 DIA. ADDED ACCESS HOLE		
D	CHANGED 3 ASSY TO 2 ASSY & ADDED 1 ASSY		
E	NEW LOOKING AFT R.H. SIDE ADDED CUTOUT (REF) FOR PBY-5B NO WT. CHG		

FOOD LOCKER REF. (28F3013)

STRINGER #10 REF.

Ⓒ BONDING POINTS
AN 320-6-10 (1)
AN 960-D6 (2)
AN 935-6 (1)
AN 345-6 (1)
AN 350-640 (1)

13 11/16

STOVE REF.

Ⓐ 3/4 APPROX

STRINGER #11 REF.

DRILL #10 (.193) AN3100-10-B SCREW AC365-D1032 NUT

STRINGER #12 REF.

SKIN REF.

STRINGER #13 REF.

Ⓒ BONDING POINT (REF.)

28F5037 SUPPORT ASSY.

Ⓒ (REF.)

CUTOUT FOR PBY-5B ONLY. (REF.)

55" OPENING

MISC. & TOOL LOCKER REF. (28F0282)

VIEW LOOKING AFT R.H. SIDE

#4.25 REF.

FOOD LOCKER REF.

Ⓒ BONDING POINT (REF.) 2 1/2

Ⓒ BONDING POINT (REF.)

AUX POWER PLANT CONDUITS REF.

AN3-DD4A AC372-D1032 Ⓕ

2 3/4 REF.

AN3-DD3A AN960-A10 AC372-D1032 Ⓕ

4 1/2

60°

-7

-6

BONDING POINTS
Ⓒ AN 320-6-10 (1)
AN 960-D6 (2)
AN 935-6 (1)
AN 345-6 (1)
AN 350-640 (1)

28F1324-56 WATER TANKS - 2 REQ.
Ⓔ 28F1324-60 (FOR 2 ASSY)
28F1324-58 FOR 3 ASSY

5 7/8 REF.

12 REF.

3

Ⓓ

#4.10

MISC. & TOOL LOCKER (REF.)

#4.50

#4.25

VIEW LOOKING OUTB'D.
FORWARD

PART No.	STOCK	MATERIAL	SPEC	LT	LH	LW	RH	RW
	PARTS LIST FOR ASSY			DASH	-0	-2	-3	-4

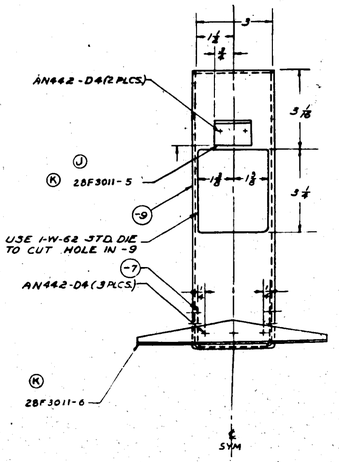
NAVY	NONE	NONE	
	HEAT TREAT	FINISH	

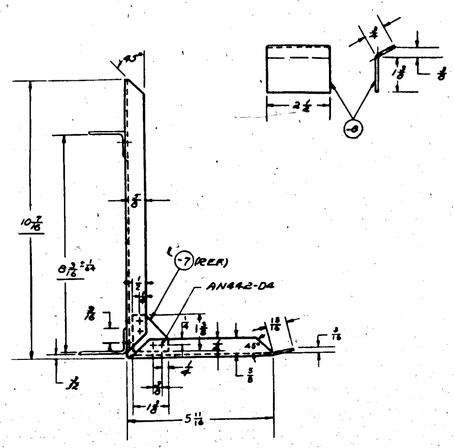
NAME INSTAL-FURNS-WATER TANK-LIVING COMPART.

CONSOLIDATED AIRCRAFT CORP. San Diego Calif.

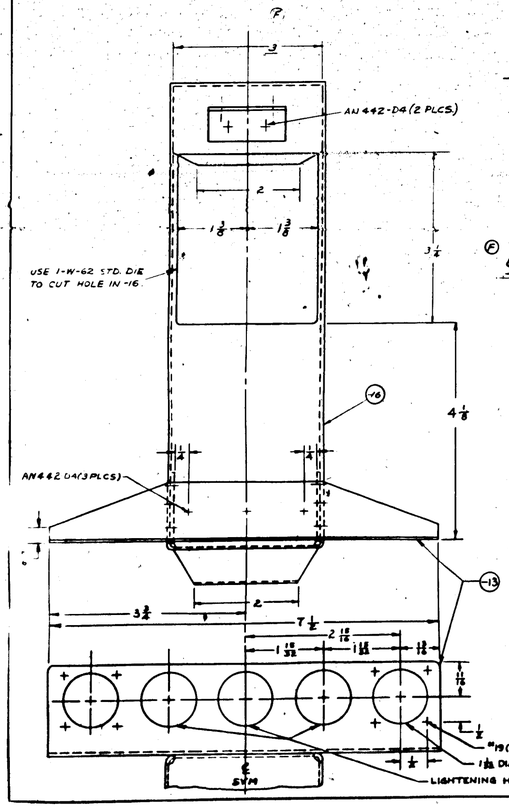
DWG NO. 28F5013

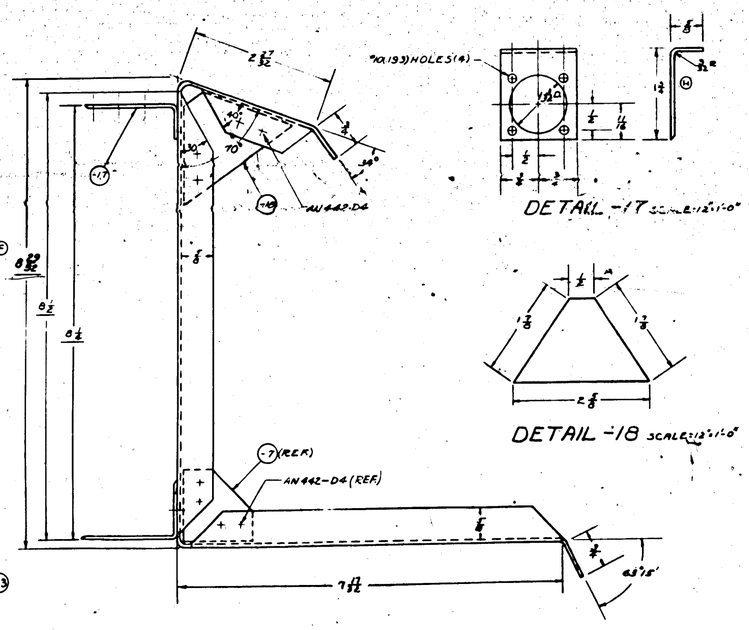
H 313





-6 BRACKET ASS'Y.
SCALE: 6 - 1'-0"





-2 BRACKET ASS'Y.
SCALE: 12"=1'-0"

NOTES:
1. HEAT TREAT -9 TO 3R-53.
2. ALL BEND & RELIEF RADII 1/8.
3. -8 TO BE ADDED ON INSTALLATION IN ORDER TO TAKE CARE OF STRINGER VARIATION.

C. "NO" ON 444
C. 91878 "H" ON
C. 70494, 71713, 89476
ONLY FOR SAB-C
89477 FOR SD

C. 70486 / C. 91876 "I" -30

APPROVED FOR TOOLING BY
E. E. Dalton
5-5-43
Change 9

LET	ALTERATION	DATE	BY
E	ADDED -8	5-28-43	
F	CHGD DIM. FROM OUTS. TO HOLE CTR. LINE		
G	CHGD DIM. FROM OUTS. TO HOLE CTR. LINE	6-4-43	
H	CHGD -9 FROM 4130 TO 2024-T4	6-30-43	
J	-8 BRACKET ASS'Y. ADDED	7-21-43	

A39027
B19072

PART NO.	STOCK	MATERIAL	SPEC.	LET ON REQ'D -5	LET ON REQ'D -2	LET ON REQ'D -3	LET ON REQ'D -4	LET ON REQ'D -8
-2	PART-SA	2024-T4						
-3	PART-SA	2024-T4						
-8	PART-FAB	MACHINE						
-A	AN-ENG	MATERIAL						
-B	AN-ENG	MATERIAL						
-C	AN-ENG	MATERIAL						
-D	AN-ENG	MATERIAL						
-E	AN-ENG	MATERIAL						
-F	AN-ENG	MATERIAL						
-G	AN-ENG	MATERIAL						
-H	AN-ENG	MATERIAL						
-J	AN-ENG	MATERIAL						
-K	AN-ENG	MATERIAL						
-L	AN-ENG	MATERIAL						
-M	AN-ENG	MATERIAL						
-N	AN-ENG	MATERIAL						
-P	AN-ENG	MATERIAL						
-Q	AN-ENG	MATERIAL						
-R	AN-ENG	MATERIAL						
-S	AN-ENG	MATERIAL						
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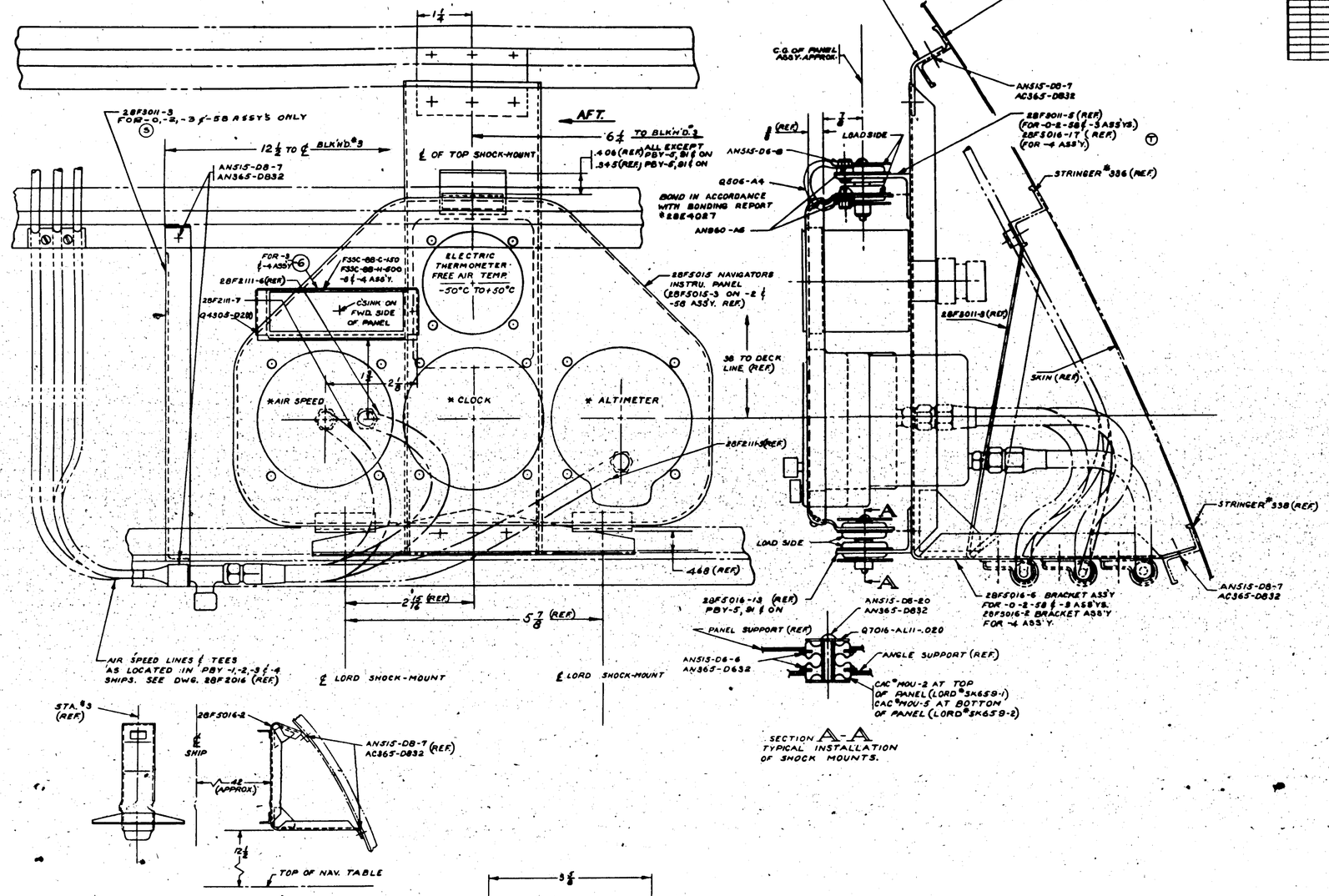
MFT	ALTERATIONS	DATE	BY
B	TRACED NO WT. CHG	2-5-53	[illegible]
A	REVISED AS SHOWN PER F.A.R. ASSY. WT. CHG. PER [illegible]	[illegible]	[illegible]
T	28F5016-17 (REF) (FOR -4 ASS'Y) WAS 28F5016-15 (REF) (FOR -4 ASS'Y) WT. CHG. NEG.	8-1-52	MAB



INSTRUMENT B/M

INSTRUMENT	MFG'S TYPE -0 ASS'Y.	REQ	MFG'S TYPE -2 ASS'Y.	REQ	MFG'S TYPE -5B ASS'Y.	REQ	MFG'S TYPE -3 & -4 ASS'Y.	REQ
AIRSPEED INDICATOR	GOVERNMENT FURNISHED	1	PIONEER *1402-100-C3 SCALE 0-70-450 KNOTS ⅛ BA. FITTING	1	PIONEER 1402-100-C3 SCALE 0-70-450 KNOTS ⅛ BA. FITTING & DIAL MARKINGS IN DUTCH	1	FS3C88-I-350 GOVERNMENT FURNISHED	1
AIR THERMOMETER (AIR TEMP)	GOVERNMENT FURNISHED 18-I-447 SEE NOTE *2	1	WESTON MOD.606 TYPE 181 SCALE -50° TO +50°C. -50° TO +50°C. 24 VOLTS DC.	1	WESTON MOD.606 TYPE 181 SCALE -50° TO +50°C. 24 VOLTS DC. DIAL MARKINGS IN DUTCH	1	FS3C88-I-2865 GOVERNMENT FURNISHED	1
ALTIMETER	GOVERNMENT FURNISHED	1	PIONEER *1530-A SCALE 0-TO-50,000 FT. ⅛ BA. FITTING	1	PIONEER *1584-3W SCALE 0-TO-10,000 FT. ⅛ BA. FITTING DIAL MARKINGS IN DUTCH	1	FS3C88-A-360 GOVERNMENT FURNISHED	1
CLOCK (ELAPSED TIME)	GOVERNMENT FURNISHED	1	JEAGER WATCH CO. *2050 8 DAY 8 DAY	1	JEAGER WATCH CO. *2050 8 DAY DIAL MARKINGS IN DUTCH	1	FS3C88-C-870 GOVERNMENT FURNISHED	1

FINISH CODE	
Z	[illegible]
P	P.S. Hewitt
GP	[illegible]
C	[illegible]

DBL - DULL BLACK LACQUER

~NOTES~

1. FINISH - TOUCH UP SCREWS & NUTS TO MATCH ADJACENT SURFACES.
2. ON CONTRACT *91876A G.M.F. *88-I-2865 THERMOMETER WILL BE FURNISHED INSTEAD OF *18-I-447 FOR PBY-5
3. CAC *MOU-2 & MOU-5 MAY BE PURCHASED FROM THE LORD MANUFACTURING CO., ERIE, PA. VENDOR'S NUMBERS ARE SK659-1 FOR MOU-2 & SK659-2 FOR MOU-5 OR EQUIVALENT.

SEE INSTRUMENT B/M

| | | | | | | | |

LET	ALTERATION	DATE	BY
	TO -0 ASSY.	4-24-45	
	REMOVED -12 SUB-ASSY		
	PER E.C.N. 1124 (DIV.		
	ADDED M264-76-GCB		
	BELT TO FACE OF DWG #		
	IN # IN TO -0 ASSY FOR		
	UPPER BUNK. NO WT CHG		
R	CREATED SECT. B-B (ADDED	4-27-45	
	TO FACE OF TWG. NO WT CHG		
	IN BALLING BRACKETS OF -7		
	IN -0 ASSY. FROM 1108		
S	FROM REQ'D REMOVED	4-27-45	
	-4 ASSY FOR 48-GAMN. NEXT		
	ASSY PER SOF, 1 REQ.		
	NO WT CHG		
T	IN BILL ADDED (MS21042-3) & (AN365-428A)		
	AL. ALLOY, CADD CLAD T, WITH "2-2437"		
	X 2.38" THK. IN BILL ADDED "(AN960-8		
	AL. ALLOY, CADD CLAD T, WITH		
	"Y-2437" X 1.94" THK. ON FACE OF DWG.		
	PER -7 & -8 RESPECTIVELY. NOTE "SHEET		
	2.38" AL. ALLOY EXT. 24S ALCAD SHT.		
	(QQ-A-250/5), SPEC. 4048 CLAD T."		
U	IN BILL ADDED (QQA-225/3), (AC425-9	8-24-45	CONAIR
	(QQA-225 ADDED "SEE NOTE" ON FACE,		
	REPLACED "CLOUT" ACCESS WITH NOTE		
	"QQA-225, OR AC225-9" NO WT CHG.	9-13-45	HOWE

LET	ALTERATION	DATE	BY
A	ADDED [illegible]		
	[illegible]		
B	ADDED -2 [illegible]		
	[illegible]		
C	AN1304 [illegible]		
	[illegible]		
D	[illegible]		
E	[illegible]		
F	[illegible]		
G	[illegible]		
H	ADDED [illegible]		
	[illegible]		
J	ADDED M-264-[illegible]		
K	[illegible]		
L	[illegible]		
M	ADDED -3 [illegible]		
N	ADDED REQ. FOR [illegible]		
	PBY-5A [illegible]		
O	REVISED -1 ASSY. [illegible]		
	-0 PARTS ARE SAME [illegible]		
	INST. INSTEAD OF SHIPS		
	[illegible]		
P	ADDED NOTE 3 & CREATED		
	-12 SUB ASSY'S. [illegible]		
Q	ADDED -11 SUB ASSY (3)		

28F5852-D
Q7008-A17-064(21)
AN 310-4 (1)
AN 960-8-2 (1)

(7) FINISH ZP-28P

AN442-04 RIVET (3) SPACED EQUALLY

(K) #200 x 2" ON -4 ASSY.

BUNK (REF)

(Q) M264-76-GC8 BELT.

B.F. 5.5 (REF)

(K) #200 x 2" ON -4 ASSY.

BUNK (REF)

B.F. 5.5 (REF)

SECT. AA
6"=1'-0"

℄ OF SHIP

-7 (2 REQ'D)

STA 45-28

STA 5.5-25½

SECTION B-B
1½"=1'-0"

SEE NOTE 2½

Q8762-K16-30 (FOR -10 SUB ASSY. REF.)

-0 ASSY: GOVT. FURNISHED EQUIPT. EQUIVALENT TO M-264 QUICK ADJUSTABLE SAFETY BELT 2" WIDE 48" LONG WITH STYLE 'C' END AS BOUGHT FROM AIR ASSOCIATES INC. FOR -0 ASSY.

-4 ASSY: M-264-48GCB SAFETY BELT

(6) STRAP ⅜ x 2 x 24 (APPROX) (1 REQ) KHAKI WEBBING. NO FINISH SPEC. COMML (FOR -0 ASSY)

(10) STRAP ASSY. (FOR -4 ASSY.)

TURN EDGE OF STRAP 2½" (TYPICAL) SEE NOTE

#200 x 2" (ON -4 ASSY.)

(11) SUB ASSY (-4 ASSY.)

28F4061 STRAP ASS'Y CUT LENGTH TO SUIT

STRAP IN STOWED POSITION

28F4051-2

37½ ON B.F. #4.50 ONLY

℄ OF SHIP

AN3-5A (2) } 3 PLACES
Q7007-A13-04014 }
AC365-1032A8 }
LOCATE DIRECTLY BELOW INBD EDGE OF BUNK

(E) FINISH ZP-28P

AN442-05 RIVETS (4)

Q8501-23, OR AC225-9 } LOCATE TO SUIT STRAP 3 PLACES
Q7008-A111-063
AN935-8
AN340-8

NOTES:
1- THREAD & STITCHING TO BE IN ACCORDANCE WITH SPEC. 48C8A.
2- FOR PLANES WITH PRESSED FRAMES.
3- IN LOWER END OF -6 STRAP USE THE SNAP REMOVED FROM G.F.E. SAFETY BELT FOR -0 ASSY. ATTACH SNAP IN MANNER SIMILAR TO ITS FORMER ATTACHMENT TO SAFETY BELT AS FURNISHED.

PLAN VIEW SHOWING BUNK LOCATIONS
¼"=1'-0"

MECH. B ® | COMPT. 27 (APPROX) | 27 (APPROX) LIVING B ® | GUNNER

BLKHD ⌀4 | B.F. ⌀4.85 | B.F. ⌀4.5 | B.F. ⌀4.75 | BLKHD ⌀5 | B.F. ⌀5.25 | B.F. ⌀5.5 | B.F. ⌀4.75 | BLKHD ⌀6

SECT. E-E (FOR SHIPS WITH FRAMES BUILT UP FROM EXTRUSIONS)
12"=1'-0"

28F4061 (REF)

28F4051-2 (REF)

SECT. CC (FOR PLANES WITH PRESSED FRAMES)
12"=1'-0"

(8) (REF)

SECT. DD
12"=1'-0"

(7) (REF)

GOVT. FURNISHED -0 ASS'Y.

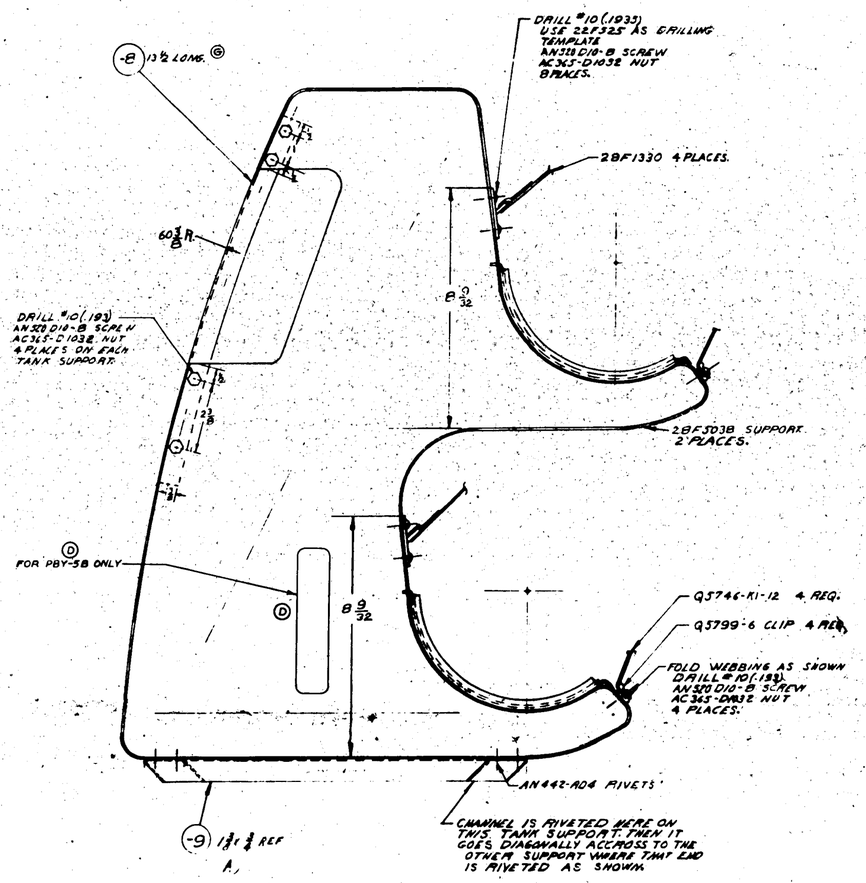
SAFETY BELT 2" WIDE x 48" LONG AIR ASSOCIATES M-264 WITH STYLE 'C' END - COLOR TAN PC KHAKI - STD. BUCKLE CADMIUM PLATED OR BRONZE ALUMINUM FINISH

FINISH CODE	
Z	ANODIC TREATMENT
P	P-29 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

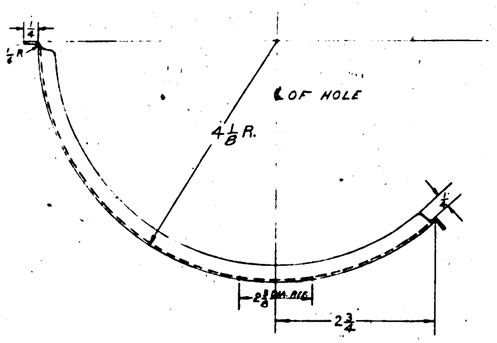
-0	28-5AMN	28F5035	1
-7	28-5AMN	28F5033	1
-8	PBY-5A	28F5053	2
-7	PBY-5A	28F5052	2
-12	28-5AMC	28F5032	1
-4	PBY-5A	28F5029	2
-4	28-5AMN	28F5028	1
-4	28-5AMC	28F5031	1
-0	28-5AMC	28F5030	1
-0	PBY-5	28F1008	1
-4	28-5MN	28F5048	1
-0	PBY-5	28F1048	1

AN442-05			
AN442-04			
MS21042-3			
AN960-8			
AN960-8			
AN960-8

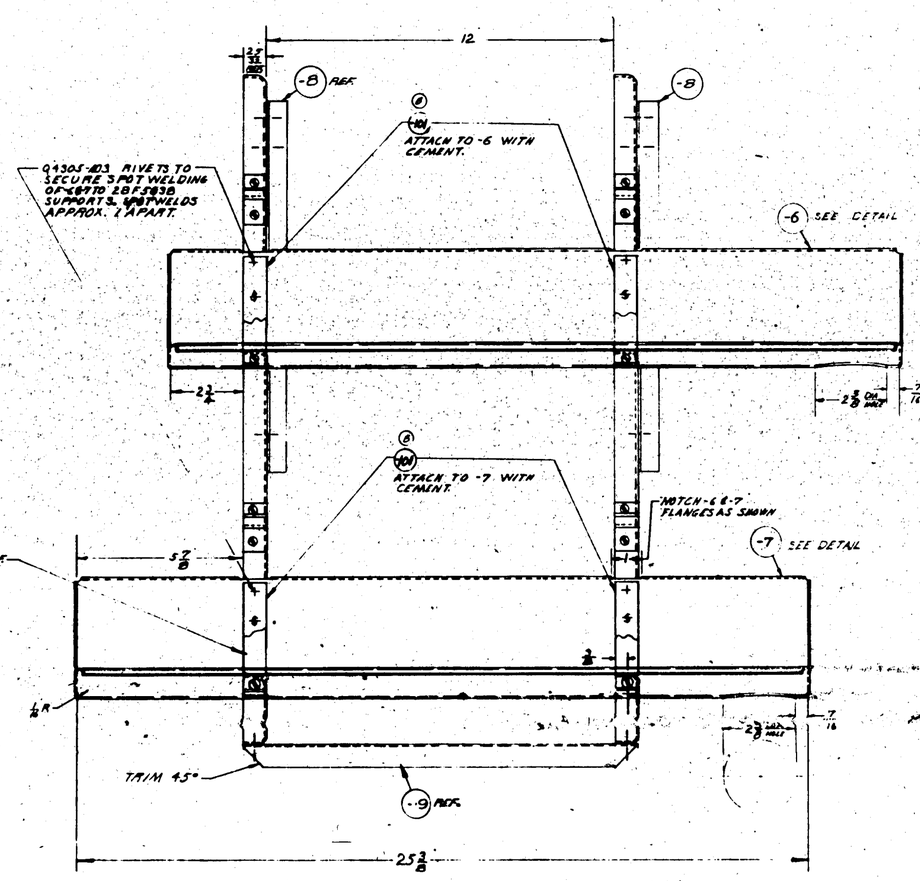
LET	ALTERATION	DATE	BY
A	NOTE AT -8 TRIM ENDS AT 60° SYMMETRICAL	6/16/41	
B	REVISED -8 WELDMENT SYMBOLS AT -10	7/16/41	A.C.K.
C	REVISED DETAIL OF -8 & -101	8/6/41	A.C.K.
D	ADDED CUTOUT & NOTE FOR PBY-5B ONLY. REQ. WT. CHG.	4/15/42	
E	IN SYM.-101-SYM. RUBBER SHT. TYPE III CL. B GRADE 2M 65° HARD GUM RUBBER. NEG. WT. CHG.	9/14/43	
F	SECURITY REQUIREMENTS PER AEROPLANE BLOCK TO DATA NO WT. CHG.	2/24/48	FILE
G	IN -8 FOR -B, REQ. ACFO "SCRAP" & 13 3/8 AL. AL. "XXX" REAR CHG. F WITH "NOTED" ON FACE OF PART. FOR -B, REQUIRED DATA "EX ANGLE 1/4 X 1 1/2 X 3 1/4" FABRICATED MATERIAL NOTE "B" FOR -B.		



SIDE VIEW



END VIEW OF -6 & -7
SCALE 12"-1'-0"



FRONT VIEW

NOTE:-
J- FINISH ALCLAD & AL. ALLOY PARTS ZP-AR -6,-7 H.T. SR53

(G) 2- MATERIAL FOR -8 MAY BE:
(A) V-2-A28T x 13 3/8, OR
(B) K540I X13 3/8, AL. AL. EXT., SPEC. 46A9 COND. T.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

PART NO.	STOCK	MATERIAL	SPEC.	LAST REQ'D	LAST REQ'D	LAST REQ'D	LAST REQ'D	LAST REQ'D
	PARTS LIST PER ASSY.			-0	-2	-3	-4	-5
-101	56-S MN	ALCLAD 24ST		4				
-101	75-S T4	ALCLAD 17ST		4				
	20-S-T4	ALCLAD 24ST		1				
	AN ANGLE	ALCLAD 24ST		1				
-101	PBY-5A	ALCLAD 24ST		4				
-101	PBY-5	ALCLAD 24ST		4				
	COMP-28	ALCLAD		1				
-6	PBY-5	ALCLAD		1				
-7	PBY-5	ALCLAD		1				

LAST ITEM DESIGNED	MODEL	NEXT ASSY	USED ON
DRAWINGS PER ASSEMBLY			
DISCARDS			
DISCARDED BY		DATE	
LISTED IN DRAWING VALUE 1/64	SCALE 2" = 1'-0"		

SYM.	REVISION	SYM.	REVISION
-101	56-S MN ALCLAD 24ST		
-101	75-S T4 ALCLAD 17ST		
-8	NOTED	NOTED	NOTED
-9	0.032 ALCLAD 24ST		
-8	0.064 ALCLAD 24ST		

A.C.			
NAVY	NOTED	SEE NOTE	
ARMY			

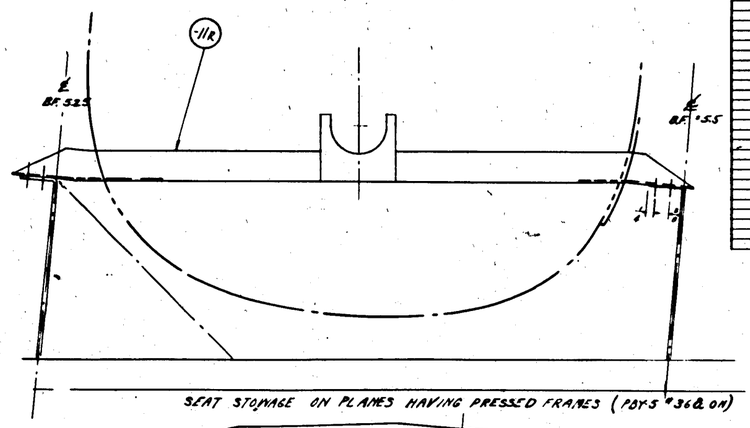
NAME WATER TANK SUPPORT ASSY.-FUSN.-2 IN. COMPART.

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

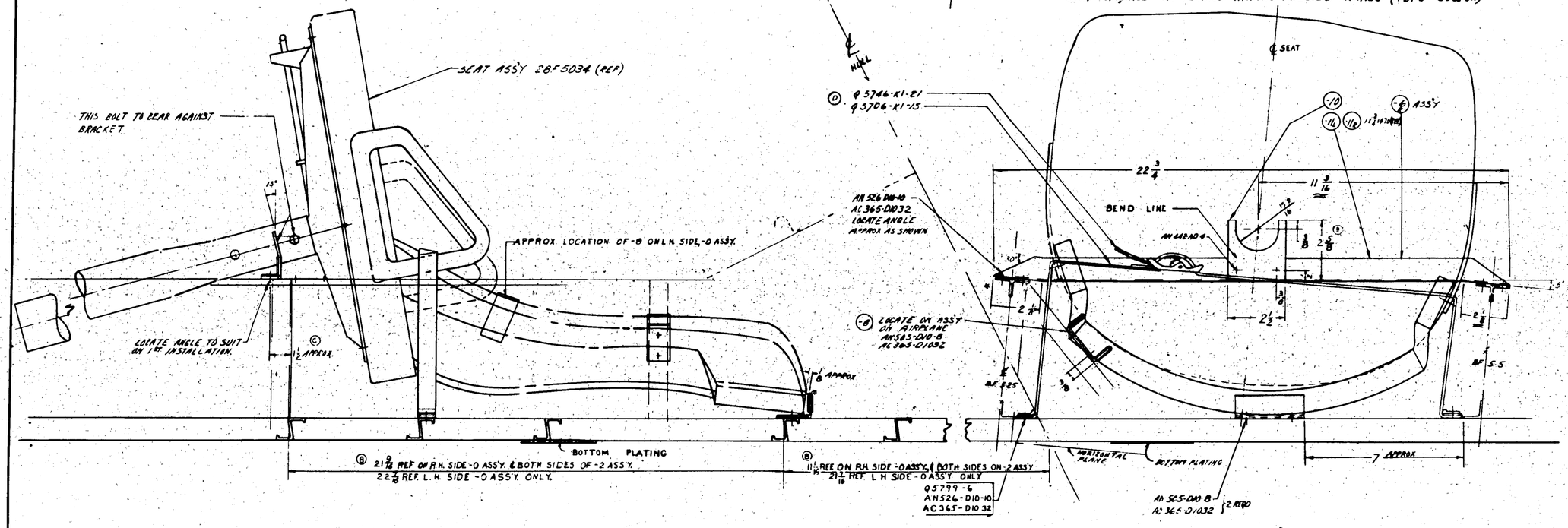
SIZE E | DWG. NO. 28F5037 | REV. R

H 317

LET	ALTERATIONS	DATE	BY
A	ADDED -5 ASS'Y FOR 28-5-SHF	2-28-50	
B	CHANGED LOCATION OUTBD OF SEAT SUPPORT ON L.H. SIDE OF HULL TO ALIGN W/ STRINGER	8-18-50	
	STRINGER CUTOUT & ADD STRINGER *SPACERS .1 2% DIM. ON -10 SUPPORT WAS 3 1/4		
C	1/4 APPROX. WAS 1/8 APPROX	2-28-50	
D	Q5706-K1-15 WAS Q5746-K6-15	11-1-50	
	Q5746-K1-21 WAS Q5746-K6-21		

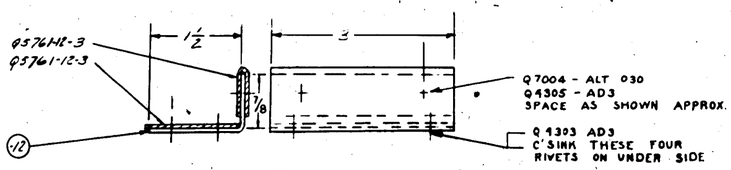


SEAT STOWAGE ON PLANES HAVING PRESSED FRAMES (PBY-5 #368 ON)

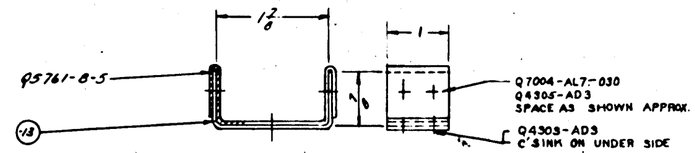


STOWAGE OF SEAT ON R.H. SIDE OF HULL
VIEW AFT

VIEW FROM ℄ OF PLANE OUTBOARD



-7 ASS'Y.



-8 ASS'Y

RH SHOWN L.H. OPPOSITE

1. FINISH AL. ALLOY PARTS Z-P-AP
2. THIS STOWAGE TO BE CHECKED ON 1ST PLANE
3. SEAT TO BE EASILY REMOVEABLE

H 318

Q4303-AD3										
Q4305-AD3										
Q7004-AL7-030						11	10			
Q5761-8-5							1			
-13 REF. 1 3/8	ALCLAD SHT 24S-T CONDT									
-8 ASS'Y										
Q7004-AL7-030						8	8			
Q4305-AD3										
Q4303-AD3						2	2			
Q5761-12-3										
-12	24S-T	ALCLAD SHT				1	1			
-7 ASS'Y										
AN442-AD4										
-11A	DIE 1608-123	AL ALLOY	24S-T	COND'T		1	1			
-11	DIE 1608-123	AL ALLOY	24S-T	COND'T		1	1			
-10	24S-T .25	ALCLAD	24S-T	COND'T		1	1			
-6 ASS'Y						L	R	L	R	
Q5799-6						2	2	2	2	
Q5746-K1-21						1	1	1	1	
Q5706-K1-15						1	1	1	1	
AC365-D1032						10	10	10	10	
AN526-D10-10						6	6	6	6	
AN525-D10-8						4	4	4	4	
-8 SUB-ASSEMBLY						1	1	1	1	
-7 " "						1	1	1	1	
-6 " "						1	1	1	1	
-6 SUB-ASSEMBLY						1	1	1	1	
PART NO.	STOCK	MATERIAL	SPEC			REQ'D -0	REQ'D -2	REQ'D -3	REQ'D -4	REQ'D -5

PARTS LIST PER ASSY.

AC NAVY NAME	NOTED				
HEAT TREAT	FINISH				
NAME STOWAGE - PURS - OBSERVERS SEAT					
CONSOLIDATED AIRCRAFT CORP.				DWG. NO. J	28F5046

LTR	ALTERATION	DATE	BY
A	CANCEL -3 ASSY FOR DETAIL -3 ASSY FOR -10 & -11 ASSY. ADD -10 & -11 AS DETAILED	10-7-41	BMB
B	REVISED 28F1060-DRG-01		
C	28F1060-8 $\frac{3}{16}$ C-10 $\frac{3}{16}$ WORE -8 & -10 F-HR F-HR (NO WT. CHG)	12-13-41	BMB (PMC)
D	REVISED REF. AIRPLANE CHG WT. -5.06	12-27-41	BMB
E	MCR [illegible] WAS MCR [illegible] NO WT CHG	4-15-42	BMB
F	ADD 7/8 WAS 3/4 DIA WT ALSO	8-15-42	BMB
G	ON FACE AT -8 & -9, REMOVED NOTE		
	AL ALLOY EXTR. .134 x 1 1/16 x 1 3/16 ALCOA DIR 2.0537 F AT -10 & -11 REMOVED		
	NOTE "1-340 CLOSE ANGLE TO 78°"		
	3/16 x 3/16 x 1/16 AL ALLOY EXTR."		
	ADDED MATERIAL NOTES L		
	2-F TYPICAL CROSS SECTION FOR -10 & -11 WT DECREASE REQ	8-4-43	MOD

SPECIFICATION

DO A FORM 44 DEC. 1918

EAA97919

SECTION A-A
SCALE 12"=1'-0"

28F6030 (REF.)
-6 (REF.)
-6 (REF.)

28F5020.

AN492-D4

DRILL #10 (.193) ON ASSEMBLY TO BLKD #2

⑩ ANGLE - APPROX. 3 LONG

⑪ OPP. -10 FOR R.H. SEAT

THIS FLANGE 3/16 AT TOP TAPER TO 1/8 AT BOTTOM

-6 AL ALLOY EXT. 1/16 x 3 3/16

-7 OPPOSITE FOR R.H. SUPPORT

GUSSET BEND LINE

DRILL #10 (.193) HOLE.

DETAIL F
SCALE 12"=1'-0"

TYP. CROSS SEC. FOR -10 & -11

⑧ CHANNEL - 30 1/8 LONG

-9 OPPOSITE FOR R.H. SUPPORT

SEE DETAIL F

MATERIAL NOTES

⑥ 1-MATERIAL FOR -8 & -9 MAY BE
(A) Y-10-A65 T x 30 1/8, OR
(B) K5037 x 30 1/8, AL ALLOY EXTR., SPEC. QQ-A-354-T

2-MATERIAL FOR -10 & -11 MAY BE
(A) .072 x 1 5/8 x 33, 24ST ALC., SPEC. QQ-A-368-T, OR
(B) KB401 x 33/8, AL ALLOY EXTR., SPEC. QQ-A-354-T.

NOTE: ALL DETAILS NOT SHOWN, FOUND ON 28F1060.

FINISH CODE	
Z	ANODIC TREATMENT
P	PAINTED
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

2-ALL RIVETS TO BE AN426-D5 UNLESS OTHERWISE NOTED.
1-FINISH-ANODIZE ALL AL ALLOY PARTS CADMIUM PLATE-37
P-AP BEFORE ASSEMBLING 28F035-9 (ON 28F303)

CNOA (3) 464 -
C.91876 "495-499 & 510 & ON-
28F5060-1 R.H. SUPPORT ONLY
28F5060 L.H. SUPPORT AS SHOWN.
C.91876 "1-494 & 500-509
C.88676 & C"77713-"4 & ON ONLY
C"70496, "168-200 & 77718 "1-3

C"70496

| | | |

LET	ALTERATION	DATE	BY
A	ADDED AN 515-D8-7, AN 515-10-7, AN 365-1032-7 & AN 365-D1032 TO B/M.	4-1-44	
B	ADDED AN 515-D8-7, AN 515-10-7, AN 365-1032-7 & AN 365-D1032 TO B/M.	4-1-44	
C	ADDED -7 CLIPS (SEE DWG. 28B1333-13) & AN 515-D8-7 (2 REQ'D) & AN 515-10-7 (2 REQ'D) TO B/M.	4-1-44	
D	ADDED CBV47068, 69, 70, 71, 72, 75, 99 & AN 515-D8-7 & AN 515-10-7 TO B/M. ADDED NOTE.	4-1-44	
E	REMOVED FROM B/M.	4-1-44	
F	CHANGE REQ'MT FOR SIDES FROM ALL TO 2024	7-1-44	
G	REMOVE # 7254 & ON FIG. 2 & -8 FOR 24SRA. N/A EFFECTS FROM AIRPLANE REQ'MT.	9-1-44	
H	ADDED NOTE. CHANGED REQ'MT ON CBV47068 FROM 2 TO 1 AN 515-D8-6 FROM 32 TO 33 AC365D8-6 FROM 32 TO 33	9-1-44	
J	I.N. BM. STOCK FOR -6 & -16. V-37-ABRT-51 WAS 0.309 W. 0.304 ST. WT. DECREASE = .19	12-21-44	

* CBV47068 (2)
* CBV47069 (2)
* CBV47070 (2)
* CBV47071 (2)
* CBV47072 (2)
* CBV47075 (2)
* CBV47099 (2)
* NAF21832-4 (14)

STA. #2.0 — STA. #3.33 — STA. #3.66

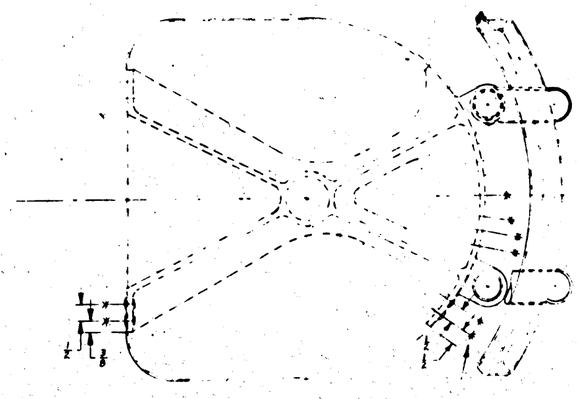
(4) ZEE

B — 50 3/16 (REF.)

1/2 — 3/16 — 1/8 — 1 3/16 — 1 1/8 — 1 3/16 — 1 1/8 — 1 3/16 — 1

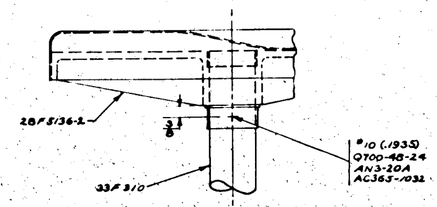
E.O. No 46134
E.O. No 129778

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	CHANGED -2 ASSY. ADDED DETAIL (AT (-2 ONLY)						
B	ADDED -3 ASSY & BROUGHT BEO						
	PER AIR TO DATE (WTC CMB NEG) 9-21-42						



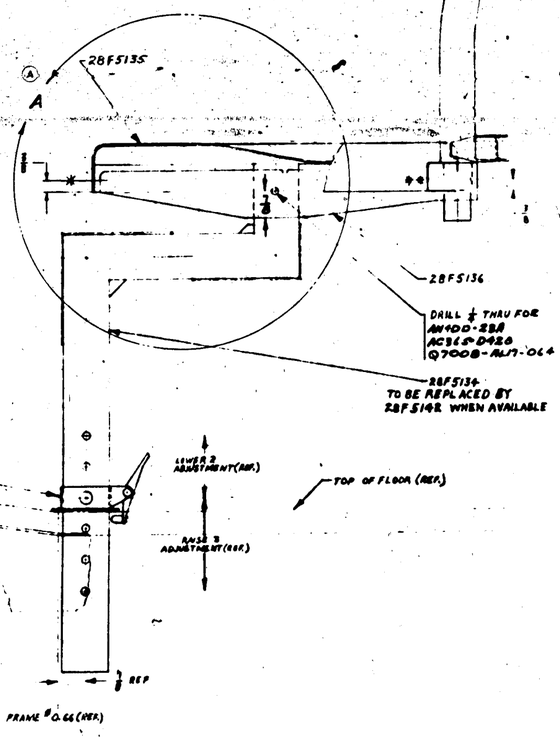
(SHIP(REF.)

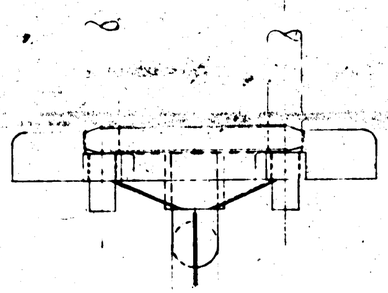
L AN 442 - D6
14 PLACES
RIVET SEAT TO CASTING



DETAIL A
(-2433T) ONLY (A)

(A) 28F1166-60 (3433T ONLY)
28F1166





NOTE: ASSEMBLE 28F5134 LEG & 28F5136 CASTING WITH WET PRIME

SHP (REF.)

TO BE REPLACED BY 28F5142 WHEN 28F5143 IS AVAILABLE

-3	28-SPAN	28F5005	1	
-0	28-SPAN	28F5006	1	
-2	433L	33F300	1	
-1	433L	33F300	1	
-0	AN3-5A	28AF4003	1	
-3	28F-5A	28F4003	1	
-3	28F-5	28F1008	1	
-0	28F-5	28F4003	1	
-0	28F-5	28F4003	1	

CONTRACTS #70496, #7713, #8978 (-30)
C #8474 #9104
C #9878
C #70496 #25-167
C #70496 #1-26 TO BE INSTALLED BY SIERRA

CONTRACT CHANGE "J"
S.O. 936-17

H 321

A-1442 - D6
AN4DD23A
AC365-0428
AN736-53
Q7008-AL17-024
A-815-A
33F310
28F5134
28F397-53
28F1166
28F5135
28F5136

PART NO.	STOCK	MATERIAL	SPEC	LIST QUANTITY -0	-2	-3	-4
PARTS LIST FOR ASSY							

AS
NAVY NONE
NEXT HIGHER
Touch up
FINISH
CHECKED 7/24/42 Schmidt
DRAWN
TRACED
STRESS
DATE
APPROVED

NAME SEAT ASSEMBLY - FURNS - BOMBERS
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.
SIZE J
DWG NO. 28F5133

LET	ALTERATION	DATE	BY
A	INCORP. NOS. 2 & 3 PER C.A.O. A8F-231A M.C.R. 126-1	8-10-43	[illegible]
B	ADDED HY 34-100 (1) & (2)	8-10-43	[illegible]
C	MATL.-(AKLA0.4)AK-A) WAS (AL-ALLOY 47A10-T) ADDED HY 34-100 (1) NEG. WT. CHG.	12-10-43	[illegible]

LET	ALTERATION	DATE	BY

CUT FLANGE 8 PLACES TO FIT 28F5136 CASTING SYMM. ABOUT ℄

NOTE: CONTOUR DESIGNATED AS NUMBER OF 1/8's BELOW RIM TOP SURFACE SEE SECTION A-A (REF.)

11/8 THE TOLERANCE ON THIS DIMENSION ARE GOVERNED BY FIT ON 28F5136 TO PERMIT RIVETING

SECTION A-A
SCALE 12"=1'-0"

SECTION B-B
SCALE 12"=1'-0"

SECTION C-C

SECTION F-F

SECTION I-I

SECTION L-L

SECTION D-D

SECTION G-G

SECTION J-J

SECTION M-M

SECTION E-E

SECTION H-H

SECTION K-K

C.13595
C.91876 "SKON
M.C.R. 126-1 ONLY
C.70496, C.77713 & C.88476
PBY-5 "28 & ON
INST. BY C.A.C.
(C.70496 & C.91876 ALL EXCEPT 86 SHIPS) SHIPS #1 TO 25 TO 86
INST. BY SERVICE

CONTRACT CHG. J
S.O. # 937-17

REQUIREMENTS FOR AIRPLANE			
			LOT
			1.08

PART NO.	STOCK	MATERIAL	SPEC	LOT NO. REQ	LOT NO. REQ	LOT NO. REQ	LOT NO. REQ	LOT NO. REQ
PARTS LIST FOR ASSY.				-0	-2	-3	-4	-5

AC 96-100261							
DATE 2450							
HEAT TREAT	FINISH						

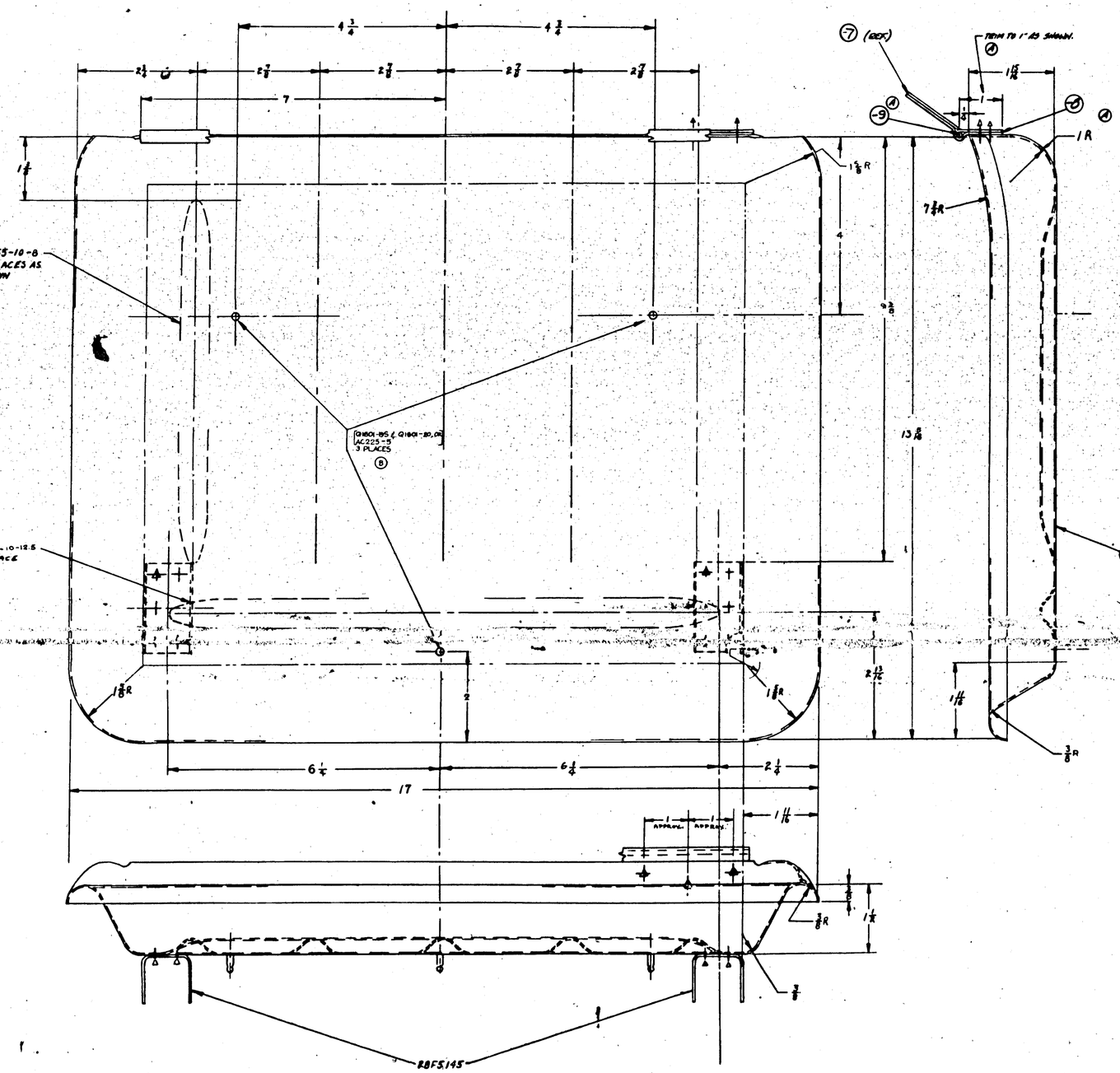
NAME SEAT-FURNS BOMBER
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SIZE J
DWG. NO. 28F5135

H 322

LET	DESCRIPTION	DATE	BY	LET	DESCRIPTION	DATE	BY
A	CHANGED B. ENGINEERING APPROVAL NOTICE "SEE SHEET 2" TO "SEE SHEET 3" AND ADDED "SEE SHEET 4"	11-14-44	[illegible]				
B	PER ENG. ADDED "HOLD 1 INCH BOTH AXES" & HOLD "NO CHEC" TO "HOLD 2 INCHES" SEE NOTE ON PAGE REPLACED CALL-OUT AC 225-5 3 PLACES WITH NOTE "Q180I-831 OR -20 ON AXES 1-3 3 PLACES." NO CHG.	3-31-45	HOPKE				

R 5



Q1801-20	(SEE NOTE)	
Q1801-185	(SEE NOTE)	
AC 223-5	(SEE NOTE)	

FINISH CODE	
A	ANOD. ALUMINUM
P	ZP Primed
AP	ALUMINUM PAINTED
C	CADMIUM PLATE

28-3AMH	TR(5137)	R
28-3MK	QQ-S-637	R
28-3MR	QQ-S-637	R
28-3NC	QQ-S-637	R
P1D-5A	AN-A-27	A
P1D-5M	AN-A-27	A
P1-5C	AN-A-27	A

PART NO.	SPEC.	MATERIAL	SPEC.	-5	-6	-7	-8
				1	1	1	1
		18 Ga. x 1/8 Long Beading Lock 22 in Length					
		1/16 Dia. x 1/4 Long	AL ALLOY				
		1/16 Dia. x 5/8 Lg.	AL ALLOY				
		1/16 Dia. x 1 1/8 Lg.	AL ALLOY	AN470AD4-5			

CONTRACT CHANGE "J"
30-936-19
INSTALLED BY C.A.C. TO START WITH 36 PBY-5 AIRPLANE.
PARTS TO BE FURNISHED BY C.A.C. & INSTALLED BY NAVY ON AIRPLANES #1 TO 34 INCL.

H 323

A-C		3-F-2AP	7/10/44
SHOP			
HEAT TREAT		FINISH	

NAME SEAT — TURNS WAIST GUNNERS

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

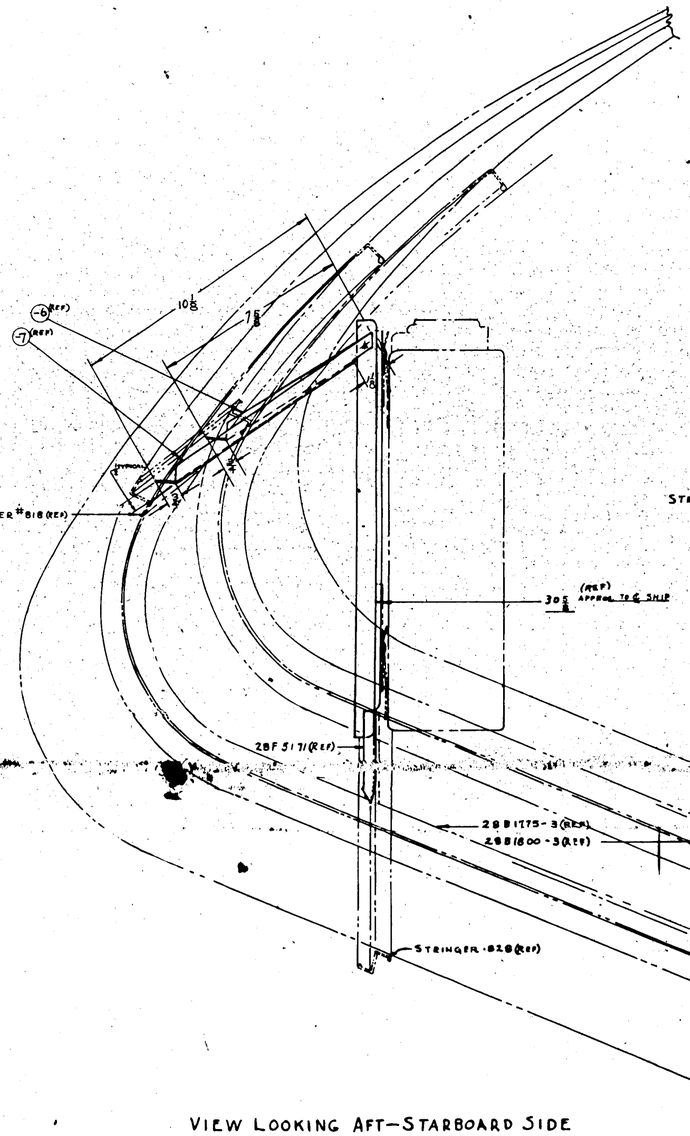
SIZE J — DWG. NO. 28F5138

R

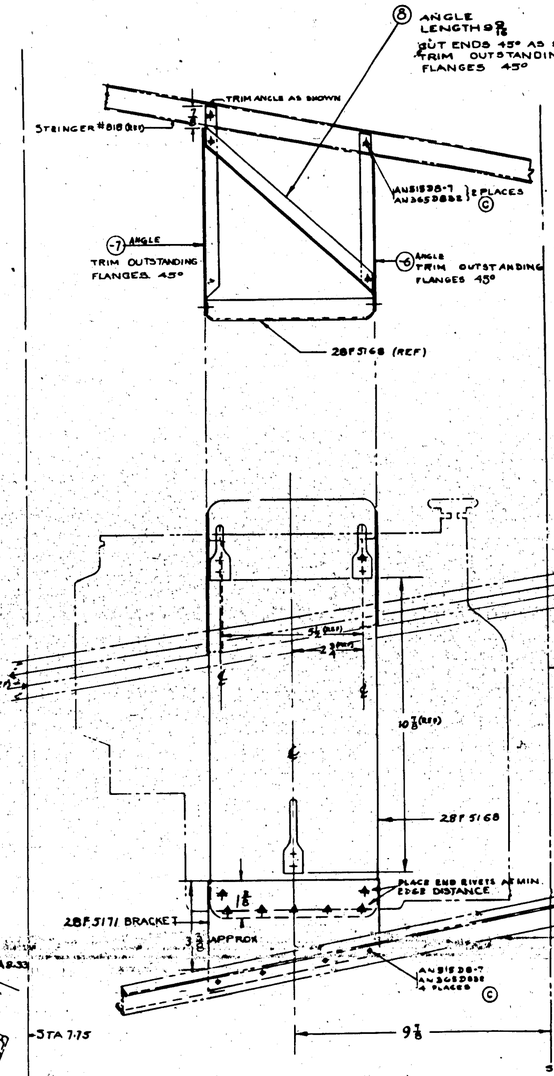
LET	ALTERATION	DATE	BY
A	NOTE 1 ADDED	10-1-40	
B	CHANGED POSITION OF OUTLET & ADDED NOTE REMOVING LOWER RIVETS AN526D10 R6-3 & R6-5 TO AN-BIB DB-5	10-30-40	
C	ADDED TO FACE OF DWG FROM AN 8508-10% AND AN 4428 DD32 (45)	12-6-40	
D	SK1213-110 WAS SK1213-90 NO WP CHG.	2-20-41	
E	IN BILL 4 WAS K6240-4 AL ALLOY 14S.A3 COND'D. 7 WAS K6240-6 & 8 AL ALLOY 24S.A3 COND'D. 5 WAS K6240-10 & ALLOY 24S.A3 COND'D. ADD'D WP CHG NO 2	3-10-41	
F	NOTE REV. — STOCK WAS 5-13-41 "REMOVE — NAF" RELOCATED CALLOUT OF NAF 310503-6D WA CHG. NO. 6.		

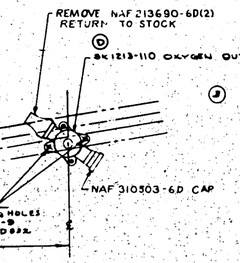
EOA 17800

EOA 18469



VIEW LOOKING AFT—STARBOARD SIDE





NOTE ALL RIVETS TO BE AN442-D4 SPACED APPROX AS SHOWN
FINISH -6 & -7 2-P
FINISH ASSEM - ZAP

CONTRACT CHANGE #8 S.O. #936-24 TO BE INSTALLED BY C.A.C. ON AIRPLANES #49 TO 200 (SERIAL NOS. 2337 TO 2488 INCL.) — PARTS TO BE FURNISHED BY C.A.C. & * MINES SAFETY APPLIANCE CO. INSTALLED BY NAVY ON AIRPLANES #1 TO #48 INCL. (SERIAL NOS. 2288 TO 2336 INCL.)

FINISH CODE	
Z	CHROMIC TREATMENT
P	P-37 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMIUM PLATE

RELEASED AS PER CONTRACT #51876

* SK1213-90 IS EQUIVALENT TO SK1213-110 INTERCHANGEABLE WITH SK1213-110

SK1213-110 M

AN442-D4

NAF 310503-6D
AN515D8-7
AC 365-D832
AN515-D8-9

PART NO	STOCK	MATERIAL	SPEC	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
PARTS LIST FOR ASSY				-0	-2	-3	-4	-5	

A.C. NAVY NONE HEAT TREAT | ZAP (MATL.) FINISH | -2,-7,-8 | INST. — FURN. NAME: TUNNEL GUNNER'S RESPIRATOR | CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

DWG NO. J 28F5170

H 324

LET	ALTERATION	DATE	BY
A	ADDED NOTE	7-28-43	RH
B	CHG'D POSITION OF OXYGEN OUTLET ADDED NOTE A	8-24-43	SPECIAL
C	ADDED -6 & -7 & VIEW SHOWING INSTALN OF SAME, CREATED -E ASSY.		
D	REMOVED NOTE REVISING		
E	PICK UP RELATING SHEETS FOR V-SERIES SHIPS ADDED ATTACH RADIUS PADS AN515/8-8 TAN365D832 ATTACHED Z8F5183 WAS ATTACHED TO Z8F5018 WITH AN426 DD-6 (4) WHICH WAS CHG'D TO AN515/8R8-7 AN365D832 WASHER "WAS" TO AN960D832-8 AN365D832 AN515/8R8-7 (8) AN426AD3-6 (4) AN515/8R8-7 (8) AN960D832-8 (4) AN365D832 (8) & AN515/8R8-7 (8)		
F	CHG'D -6 & -7 TO BRACKETS 1 PER SHIP - SHOWED OXY. OUTLET AS (REF.) IN -E ASSY. ADDED NOTE TO BE INSTALL. ADDED -E FOR SHIPS #30 THRU 167 (INCL.) ATTACH -7 FROM 2 PARTS TO BE MADE UP (LOCATING DIM. FOR -7)	8-28-43	SPECIAL
G	ADDED AN515-8R8-7 & AN365D832 AT 2 LOCATIONS	9-28-43	SPECIAL
H	DRILL 0.196 HOLES AN515D8-8 AC 30F3882	10-12-43	MAYS

E.O.35424
E.O.39549
E.O.39147
E.O.43458 PBY-5
E.O.48729 PBY-5

SO #A17800

DETAIL -6
SCALE 3"=1'-0"

DETAIL -7
SCALE 3"=1'-0"

Z8F2246 (REF)

Z8E2210 (REF)

TO ℄ AIRPLANE 35½ APPROX

Z8F1324-55 (REF)

Z8F5013 (REF)

Z8F5168

HINGE

22½ APPROX

NOTE:
ALL RIVETS A8D4: 84 RIVETS EQUALLY SPACED AND CARE EXERCISED TO AVOID BEAD IN Z8F5158-6 AT ASSEMBLY WITH Z8F5172-6 FINISH-6 Z-P

Z8F022 (REF)

VIEW LOOKING OUTBOARD - STB'D SIDE
SCALE 6"=1'0
FORWARD

℄ BULKHEAD STA 4.0

℄ STA 4.25

RE-BREATHER (REF)

Z8F5037-6 (REF)

Z8F5183

AN515D8R-6
AN365D832
SPACE APPROX 3 APT OF Z8F5013

AN515D8R-7
AN365D832

ATTACH Z8F5183 TO Z8F5168 (REF.) WITH AN526DD832-7
AN365D832 3 PLACES

Z8F5013 (REF)

Z8F5634 (REF)

1¼ APPROX RIPD

ATTACH Z8F5168 TO Z8F5158 WITH AN515D6-8 (4)
AN365D832

SK1213-110 OXYGEN OUTLET REMOVE LOWER SLEEVE NAF#13490-63 AND RETURN TO STOCK. REPLACE WITH CAP NAF#810303-63

DRILL 0.196 HOLES AN515D8-8 AC 30F3882

4

4½

Z8F022 (REF)

SK-1213-110 OXYGEN OUTLET MAY BE PURCHASED FROM HIRE SAFETY APPLIANCE CO - PITTSBURGH PA. USA.

Z8F5684 (REF)

BELTFRAME STA 4 (STBD)

BULKHEAD STA 4½ (REF)

VIEW LOOKING FWD-STB'D SIDE
SCALE -6=1'0"
OUTBOARD

℄ STA 4.50

E

-6 REF

-7 REF

31 TO ℄ SHIP

17¾

ANGLE (2 REQ) MADE FROM 4130 (1"x 1" x 1/16) SEE DETAIL

Z8F5168 (REF)

ANGLE (2 REQ) MADE FROM 4130 AN960-8D6 (2) SEE DETAIL

7

10¼

SK1213-110 (REF)

Z8F022 Tool Lock (REF)

VIEW SHOWING INSTALN OF -6 & -7 FOR -E ASS'Y ONLY
SCALE 3"=1'0

PART NO.	STOCK	MATERIAL	SPEC	LH REQ -0	RH REQ -0	LH REQ -2	RH REQ -2	LH REQ -3	RH REQ -3	LH REQ -4	RH REQ -4
AN960D832				2	3						
AN960D832-7				3	3						
MS21083-6P	CAP			1	1						
AB426-D8A1-9	SCREW			2	2						
AN365-D8A1	NUT			3	3						
SHEET											
SK-1213-110	OXYGEN OUTLET			1	1						
AN515D8-8				4	4						
AN515D8R-8				7	7						
AN515D8R-8				6	6						
AN960D832-6				1	1						
AN960D832				4	4						
AN515D8-7				5	5						
Z8F5168					1						
Z8F5185				1							

LET	DATE	BY	CHANGE
-0			
-2			
-3	PBY-5		Z8F5154-1
-4	PBY-5		Z8F5154-1
-5	PBY-5		Z8F5154-1

CONTRACT CHANGE "O" SO # 936-24 TO BE INSTALLED BY CAC. ON AIRPLANES #89 TO #89 (INCL. (SERIAL NOS. 2337 TO 2378 (INCL.) PARTS TO BE FURNISHED BY C.A.C. # INSTALLED BY NAVY ON AIRPLANES #1 TO #10 INCL. (SERIAL NOS #2289 TO 2296 INCL) -E ASSY TO BE INSTALLED BY C.A.C. ON SHIPS #30 TO 167 INCL. SERIAL #2370 TO 2535 INCL

CONTR #91876
#30 TO #167
#1 TO #29

RELEASED AS PER CONTRACT #91876

SK1213-90 IS EQUIVALENT TO & INTERCHANGEABLE WITH SK1213-110

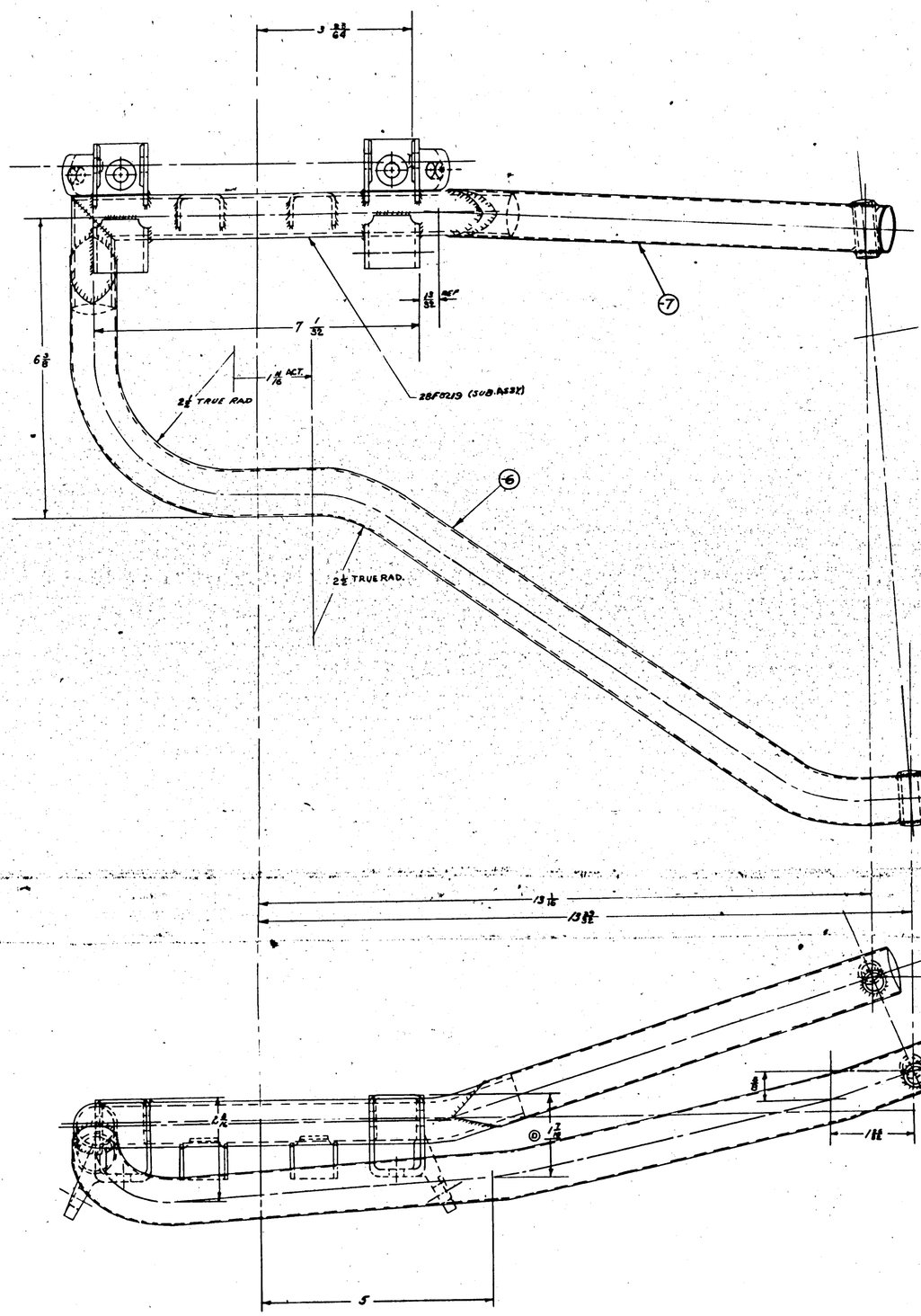
H 325

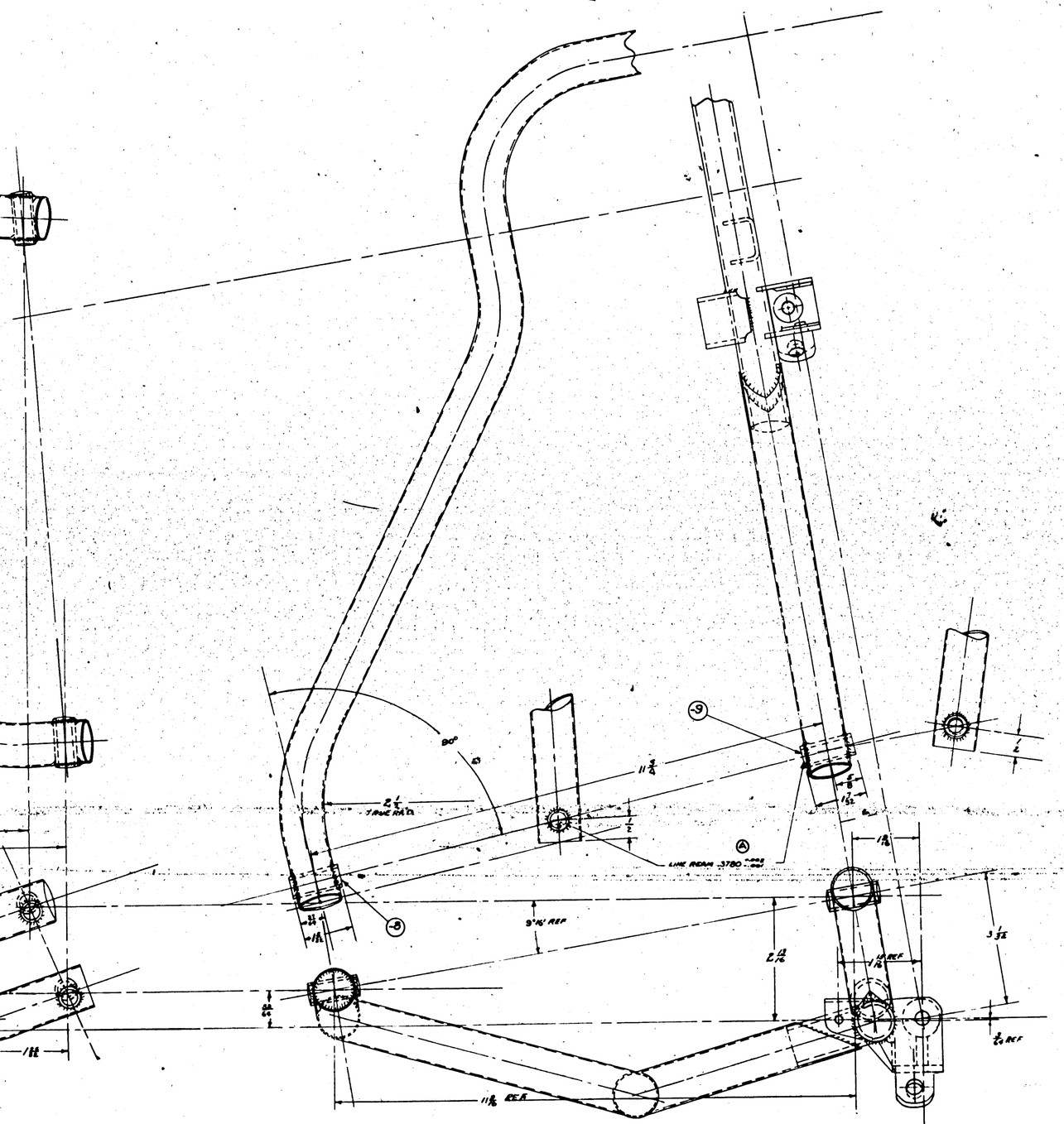
A-0			
DRAWN Hunt	REAP		
TRACED TODAY	CHECKED		
NAME RE-BREATHER-FURNS-MECH'S STATION-LOWER STA 40 TO 50 INSTAL			
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.			

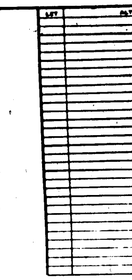
GRP NAME	SIZE	DWG NO.
	J	28F5172

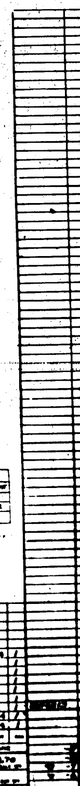
E.O. 10447
E.O. A2A70
CAF50833

LET	ALTERATION	DATE	BY
	ADDED -17 & -18 PER A.R.S.K.		
	OBTAIN MAT'L SPEC.	5-31-50	BAM
C	ADDED NOTE TO FACE OF PART "BEARING A PATTERN NO."		
	ADDED NOTE TO FACE OF PART "BEARING A PATTERN NO."		
D	ADDED NOTE TO FACE OF PART "BEARING A PATTERN NO."		









FINISH CODE	
Z	ANODIC TREATMENT
P	PAINT
AP	ALUMINUM POWDER
C	CADMIUM PLATE

4 PINS @ .651 dia
28-3/4" @ .374 dia

PINS-SB		28F1134
A-SAME		
AB-SAME		
SB-SAME		
AB-SAME		
AB-SAME		
PINS-S		28F1134
PINS-S		28F1134

DATE	ORIGIN		
3-13-56			
SCALE			
1/2		15" = 1'-0"	

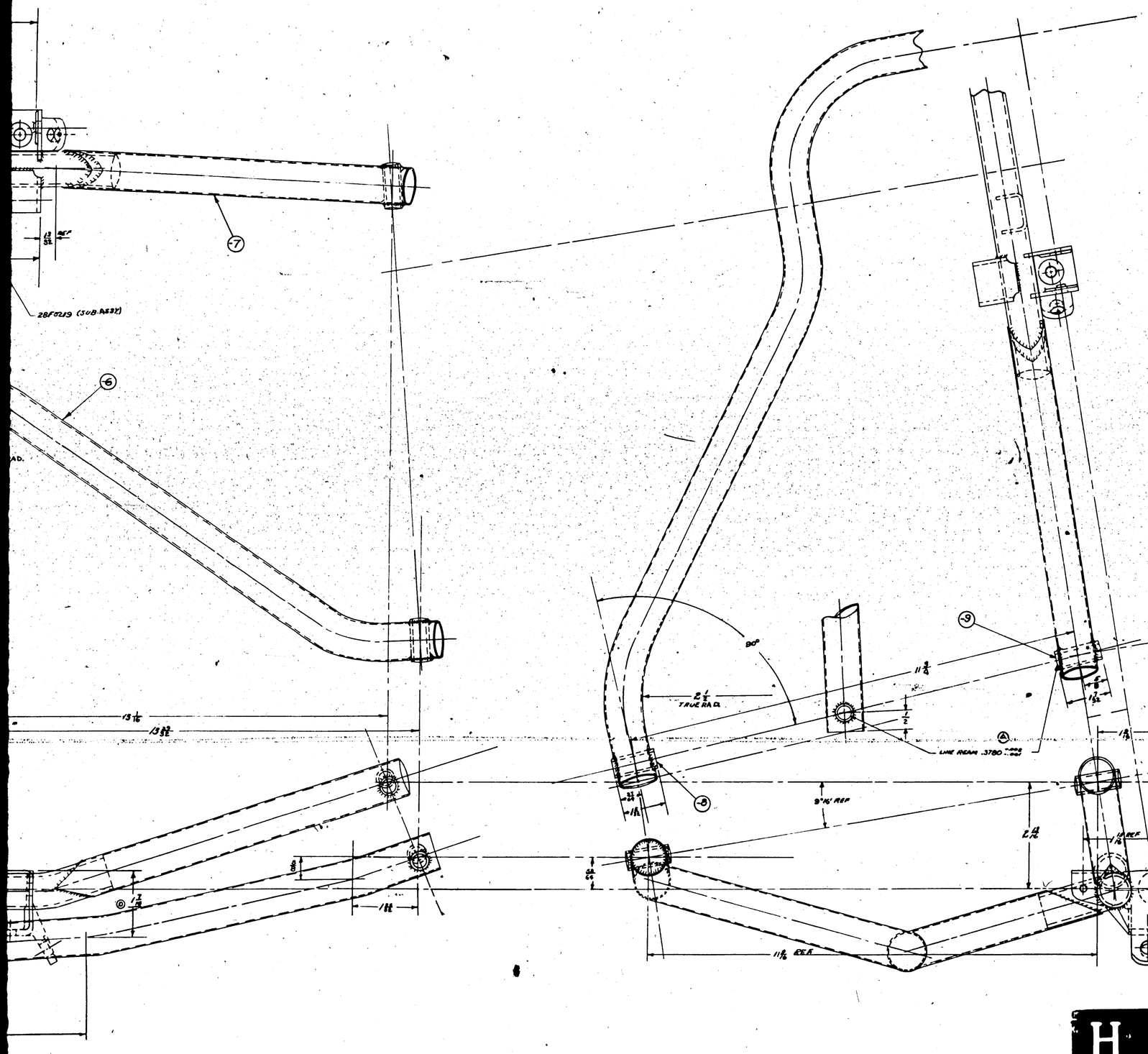
H 327

ALL WELDS SHOULD BE AS SMALL AS POSSIBLE
NOTE—THIS V-BRACE SHOULD BE JIGGED & THE FIRST ITEM SHOULD BE TACK WELDED AND TRIED AT INSTALL. *28F1134 PRIOR TO FINAL WELDING & FINISHING TO ASSURE PROPER ALIGNING OF HINGE CENTERS

NORMALIZE—6 TUBE ONLY BEFORE WELDING

▽ NOTE—
Ⓒ Ⓔ MATERIAL FOR —6 & -7 MAY BE
(A) S.A.E. 4130 CHROME-MOLY STEEL TUBING, WELDED, SPEC. AB-T-3, OR
(B) 4130 CHROME-MOLY STEEL TUBING, SEAMLESS, SPEC AB-WW-T-850

LET	ALTERATION	DATE	BY
A	CHANGED BEAM NOTE, ETC. PER DR.	8-30-41	[illegible]
B	ALTERATION [illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]



FINISH CODE	
Z	ANODIC TREATMENT
P	PAINTED
ALP	ALUMINIZED PAINT
C	CADMIUM PLATE

#PBM 5 @ 65 ¢ ea
28-3148 @ 27¢ ea

ALL WELDS SHOULD BE AS SMALL AS POSSIBLE
NOTE—THIS V-BRACE SHOULD BE JIGGED & THE FIRST ITEM SHOULD BE TACK WELDED AND TRIED AT INSTAL.
▽28F1134 PRIOR TO FINAL WELDING & FINISHING TO ASSURE PROPER ALIGNING OF HINGE CENTERS

NORMALIZE—6 TUBE ONLY BEFORE WELDING

H 327

Ⓒ ▽ NOTE—
Ⓔ MATERIAL FOR —6 & —7 MAY BE:
(A) S.A.E. X4130 CHROME-MOLY STEEL TUBING, WELDED, SPEC. AN-T-3, OR
(B) X4130 CHROME-MOLY STEEL TUBING, SEAMLESS, SPEC. AN-WW-T-850

PART NO	STOCK	MATERIAL	SPEC	PARTS LIST PER ASSY	-0	-2	-3	-4	-5
				REQ'D					
-6	1 1/8	4130	AN-WW-T-850		1	1	1	1	1
-7	1 1/8	4130	AN-WW-T-850		1	1	1	1	1

PROCESSED	28F1134		
28-A6M4			
28-B6M4			
28-A6M4			
28-B6M4			
28-C6A			
28-X6			
28-B6M4	28F1134		
28-Y-X	28F1134		

LET	ORIGINAL	PRINT ASSY	NO
REQUIREMENTS FOR AIRPLANE			
28Plus of 2-13-36	2.70		
REPLACED BY			

SCALE	1 1/2	18"=1'-0"	
FINISH	NOTED	INT. F-AP	
HEAT TREAT			

APP			
DRAWN	L.A. Crowell	9-6-41	
TRACED			
STRESS			
WT.		23.40	

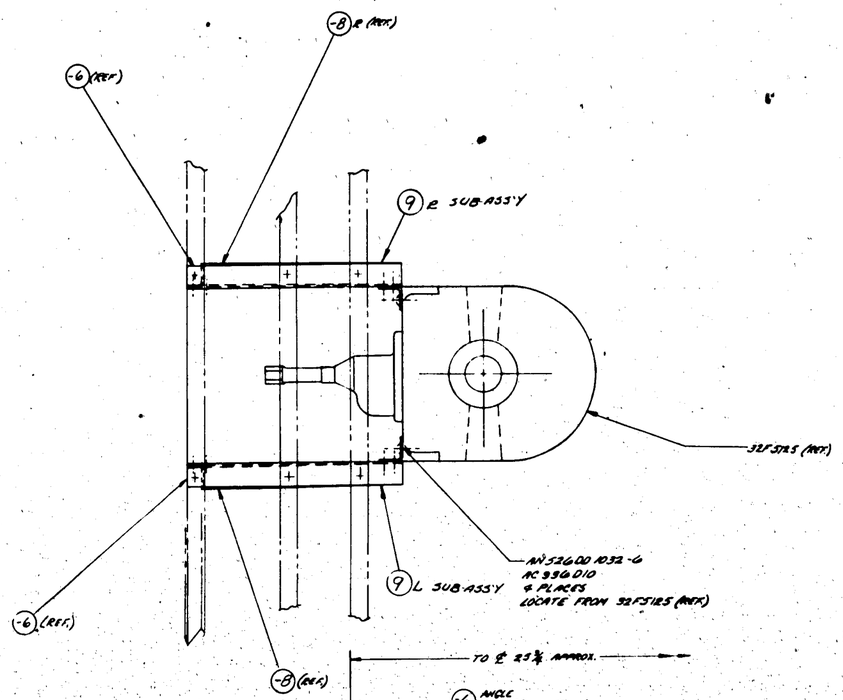
NAME FITTING-ARMAMENT TUNNEL GUN-V-BRACE

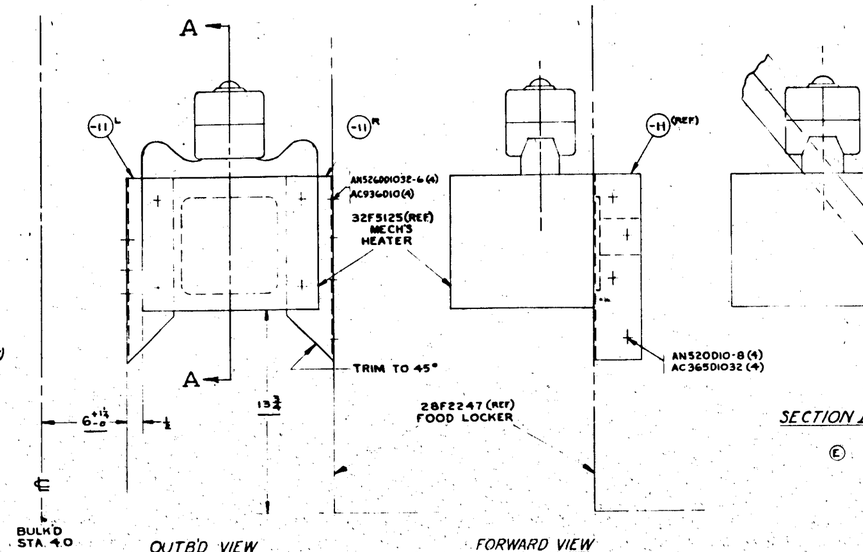
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

OPT. Serial NO. [illegible]

SIZE J — DWG NO. 28F5217

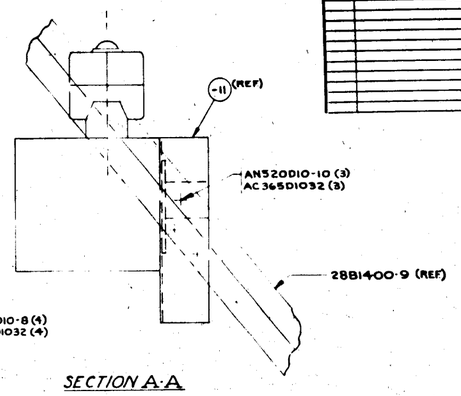
LET	ALTERATION	DATE	BY
A	REVISE ACTUAL DIMENSIONS		
B	ADD DIMENSIONS		
C	ADDED BRACKETS WITH SUBASSY		
D	ADDED -5 ASSY & -3 ASSY NO WT CHG		
E	ADDED OUTBD VIEW STARBD SIDE FORWARD VIEW & SECTION A-A, ADDED -11 & -11R AN5210D10-3(4), MS75010-10-1000, AC365D1032(7), AN5260D1032-6(6) AC936D10(4) WT CHG NEG.		



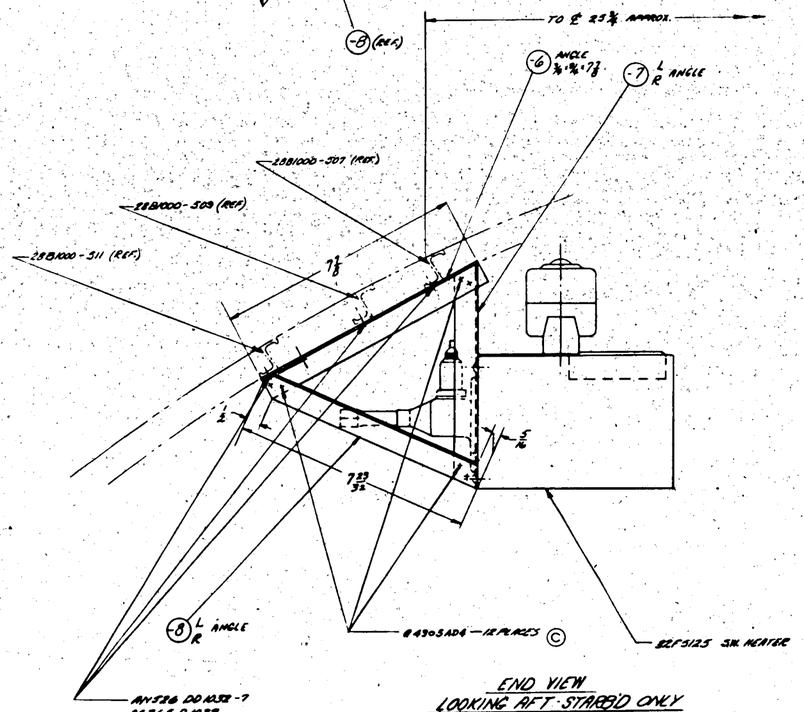


OUTB'D VIEW
STARB'D SIDE
FOR -2 & -3 ASS'YS

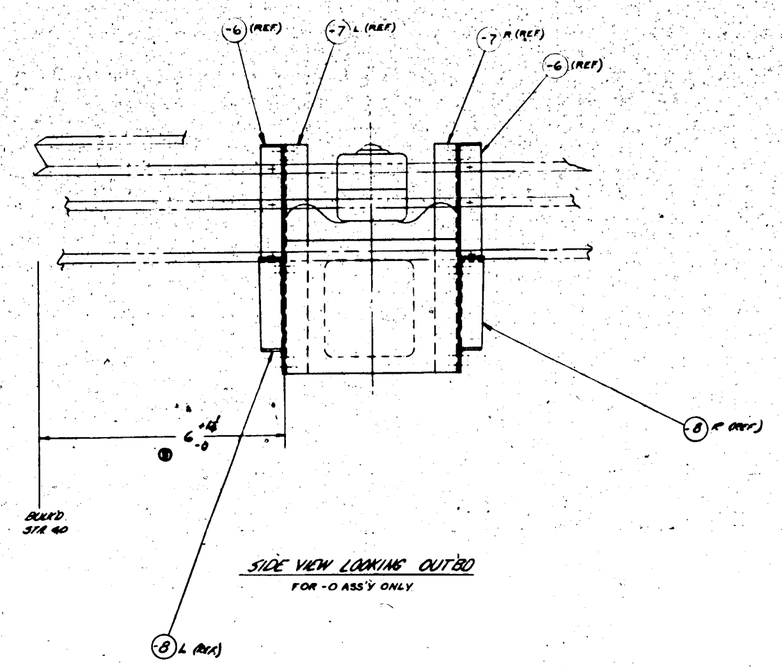
FORWARD VIEW
FOR -2 & -3 ASS'YS



SECTION A-A



END VIEW
LOOKING AFT-STARB'D ONLY
FOR -0 ASS'Y ONLY



SIDE VIEW LOOKING OUTBD
FOR -0 ASS'Y ONLY

PART NO.	STOCK	MATERIAL	SPEC	-0 REQ	-2 REQ	-3 REQ	-5 REQ
	PARTS LIST PER ASSY.						
32F5125-5	SUB ASSY						
28F5265-501	SUB ASSY						
28F5265-51	SUB ASSY						
	-11 YEA63TX6				1	1	1
	-11R YEA63TX6				1	1	1
28F5265-501	K5401-7⅞	AL ALLOY	46A9T	1			
	-11R K5401-7½	AL ALLOY	46A9T		1	1	1
	-6 K5401-6	AL ALLOY	46A9T	1			
	32F5125 SUB ASSY						
	-8L K5401-	AL ALLOY	46A9T	1			
	-11L K5401-7½	AL ALLOY	46A9T		1	1	1
	-6 K5401-6	AL ALLOY	46A9T	1			

AN526D10032			
AC936D10			
AN526D10032-7			
AN526D10032-6			
AN5260D1032E-6			
AN5260D1032-6			
32F5125	SW HEATER		
B4905AD6			

-3	PBY-5	28F5264-1	1
-2	PBY-5B	28F7289-1	1
-0	20-3MC	28B2361	1
-0	20-3MA	28B2361	1
-0	20-3ME	28B2361	1

CONST. POSTS 1-00
*040N

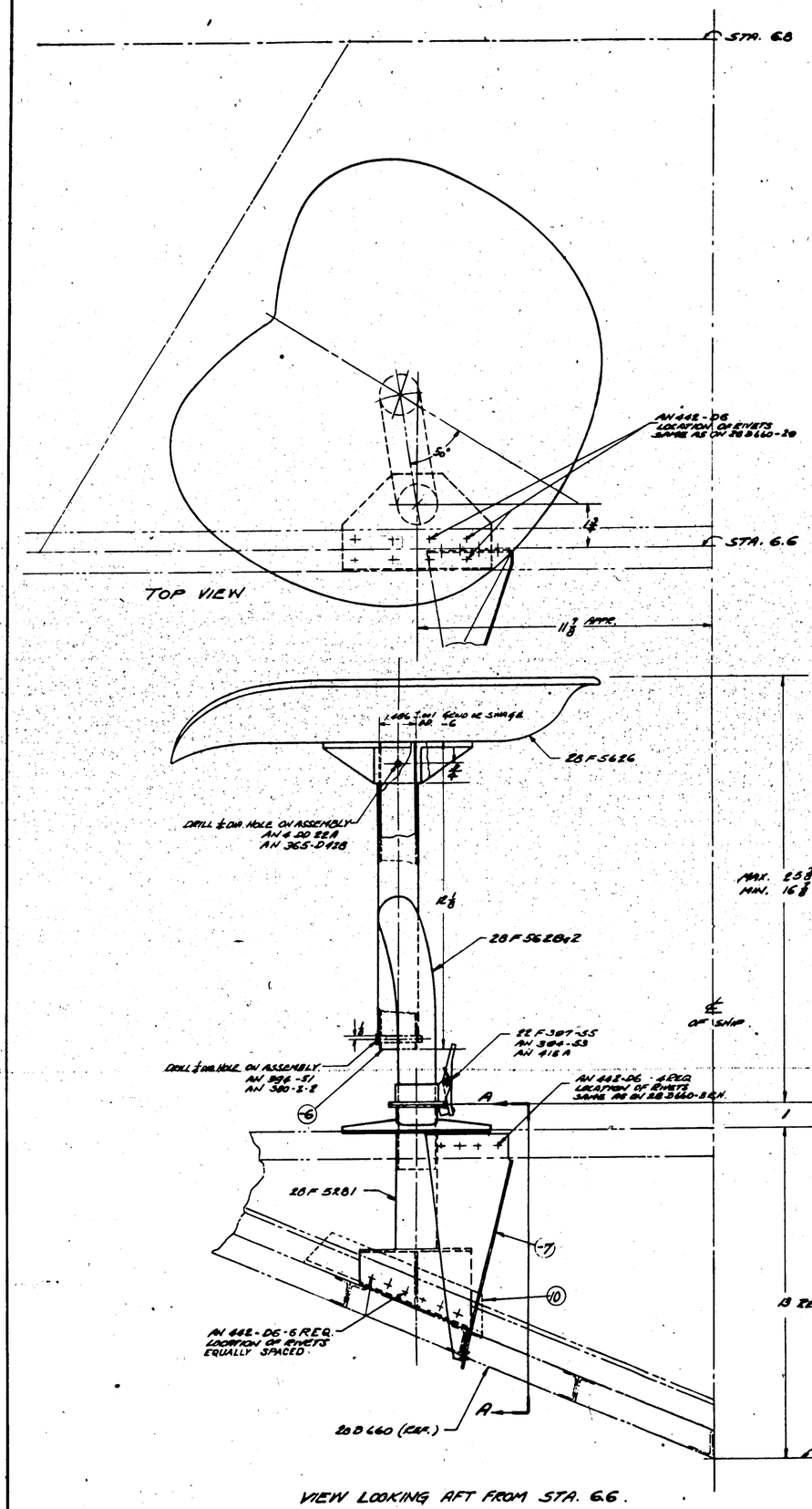
DESIGNED		Lee					
CHECKED BY							
LIST OF EFFECTIVE PAGES	SCALE						
	A2	6"/1"					

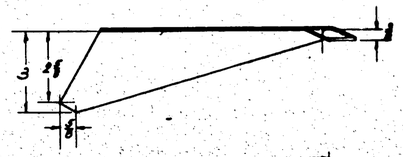
AS							
NAVY NONE							
HEAT TREAT	FINISH						
NAME	INSTALL-FURNS MECH'S HEATER						
CONSOLIDATED AIRCRAFT CORP.							

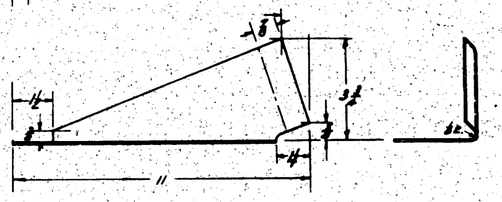
SIZE	DRAWING NO.
J	28F5225

H 328

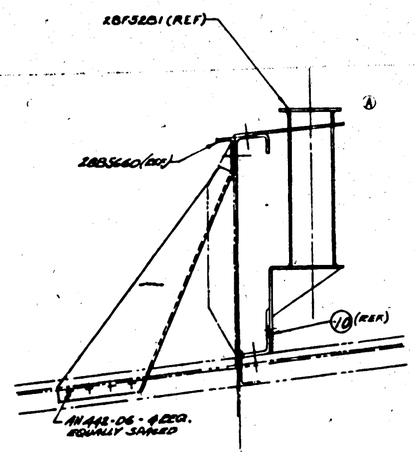
E.O.	LET	ALTERATION	DATE	BY
A11935	A	ADDED NOTE 8 ALTERNATE MATERIAL FOR -6 (MACHROME-MOLY WELDED TUBING AN-WW-T-850, COND N) OR (MACHROME-MOLY SEAMLESS TUBING AN-WW-T-850, COND N)	10-30-52	
A11935	B	ADDED NOTE: ALTERNATE--- -6 (MACHROME-MOLY SEAMLESS TUBING AN-WW-T-850, COND N) OR (MACHROME-MOLY WELDED TUBING AN-WW-T-850, COND N)	11-14-52	
	C	(1) -6 (MACHROME-MOLY SEAMLESS TUBING AN-WW-T-850, COND N) OR (MACHROME-MOLY WELDED TUBING AN-WW-T-850, COND N) (2) MATERIAL FOR -10 MAY BE:- (A) 24ST 3/4 HARD AL. ALLOY EXTR. SPEC. QQ-A-267 COND T, 3/4 HARD (B) 24ST AL. ALLOY EXTR. SPEC. AN-W-8 COND T.		







DETAIL -7



SECTION A-A.

B NOTE
- (B) 1.- ALTERNATE MATERIALS FOR -6: (MACHROME-MOLY WELDED TUBING AN-T-2, TYPE I, COND M, OR (B) CHROME-MOLY SEAMLESS TUBING AN-WW-T-850, COND N.
- (C) 2.- MATERIAL FOR -10 MAY BE:- (A) 24ST 3/4 HARD AL. ALLOY EXTR. SPEC. QQ-A-267 COND T, 3/4 HARD (B) 24ST AL. ALLOY EXTR. SPEC. AN-W-8 COND T.

B SHIPS - SERIAL NO'S 2486, 2487, 2488

CONTRACT ORDER 70496
CHANGE NO. -Q-1

H 329

| | | |

LET	ALTERATION	DATE	BY
A	Attach Antenna & Add Mtg. Pts. Camera Compartment	12-9-41	
B	Add Pts. -1 (AN503-832R7-28) -2 (AN503-832R8-28) -3 (AN503-832R9-28) -4 (AN503-832R10-28) -5 (AN503-832R11-28) -6 (AN503-832R12-28)	12-9-41	

FWD

TRIM CORNER OF -8 TO FIT

3½

-9

AN442-D6

Q4305-D4 RIVETS

A1425-D4 RIVET - 4 PLACES TO MATCH 073410-(SEE A-A)

RIVET IN OLD HOLES

AN442-D6 RIVET

STRINGER #738

Q4305-D4-SPACE APPROX. AS SHOWN

STRINGER #736

STRINGER #734

STA. 6.8

A

40°

2

-6

-8

AN442-D6

28D5261-37 (REF)

-8 (REF)

-7

LOCATE -7 SO THAT 2 RIVETS LINE UP WITH 28A5567

28A5567

AN425-D4

28A5568

PINS-VERTICAL VIEW FINDER U.S. ARMY DRG NO 073410

28A5571

28A5570

AN442-D6

Q4305-D4

4 HOLE

CUT STRINGER

4¹²/₃₂

12¼

4⁸/₃₂

7¹¹/₁₆

SECTION A-A

1⅜

STA 6.8 (REF)

A

13

¾

5½ HOLE

B

B

13

STA. 6.8

USE #28A5567 AS TEMPLATE FOR DRILLING HOLES IN SKIN #-8

7/8 DIA.

B-B

TRUE VIEW OF HOLE IN SKIN #-8
LOCATE TO MATCH 28A5567

9 SHIPS - SERIAL NOS. [illegible]
CONTRACT ORDER 70496
CHANGE NO. -Q-1

| | | |

LET	ALTERATION	DATE	BY
A	ADDED TO BILL OF MATERIAL FOR SUB ASSY'S CREARD-GLOR SUB ASSY	7-24-41	

28F5090 AUX. POWER UNIT BASE (REF)

28F2200-20 SUB ASSEM

AFT & TOP EDGE OF MISC TOOL & GEAR LOCKER 28F022 (REF).

NOTE
1. ALL ANGLES THAT COME IN CONTACT WITH STOVE TO BE COVERED AT INTERVALS WITH ¼ COTTON WEBBING.
2. FLUSH HEAD ALL RIVETS THAT COME IN CONTACT WITH STOVE.

28F2200-4 (REF)
28F2200-6 (REF)

10⅜

AN425-D4

8 5/16

28F2200-14
28F2200-13

4⅞

¢SHIP

30

5¾

FLR (REF)

STAR BD SIDE LOOKING AFT

28B3418 (REF)

G3748K1-42 (REF)
G3708K1-13

6 5/16

20⅞

12⅛

2

1 1/16

DRILL (2) 9/10 (.193) HOLES
AN526-D1032-7
AC365-D1032

15⅛

G3799-8
AN425-D

28F2200-7
28F2200-4
28F2200-12R

28F2200-6
28F2200-9

DRILL (2) 9/10 (.193) HOLES
AN526-D1032-7
AC365-D1032

VIEW LOOKING OUTBOARD
FORWARD

STA 450

STA 475

SHIP 118 3/8 BUTT LINE

AS PER S.O. 936-49
CONTRACT CHG. "X"

+ = RIVETS	(SIZE INDICATED AT INTERVALS BY THE FOLLOWING MARKINGS)
✦ - 1/16	✦ - 5/32
✳ - 3/16	⊕ - 1/4
⊕ - 5/16	◈ - 3/8

H 331

A	28F2200-9							2
	28F2200-7							2
	28F2200-10							2
	28F2200-12							2
	F&R SUB ASSEMBLY							
B	28F2200-9							2
	28F2200-11							2
	28F2200-8							2
	28F2200-12							2
	SIDE SUB ASSEMBLY							
	AC108-4							2
	G3708-K1-13							2
	AN442-D4							
	AN442-D4							
	AN425-D							
	AN526-D1032-7							4
	AC365-D10 2							4
	28F2200-10							2
	28F2200-13							2
	28F2200-6							2
	28F2200-14							2
	F&R SUB-ASSEMBLY							
	-AR SUB-ASSEMBLY							
	-L SUB ASSEMBLY							

PARTS LIST

PART NO.	STOCK	MATERIAL	SPEC.	LET NO REQ'D -0	LET NO REQ'D -2	LET NO REQ'D -3	LET NO REQ'D -4
PARTS LIST PER ASSY.							

A.C.					
ENVY	Z-P-2 AP				
NEXT HIGHER	FINISH	QUALITY			

NAME INST.- FURNS PROPANE STOVE STOWAGE

CONSOLIDATED AIRCRAFT CORP. Sub Assem. Group

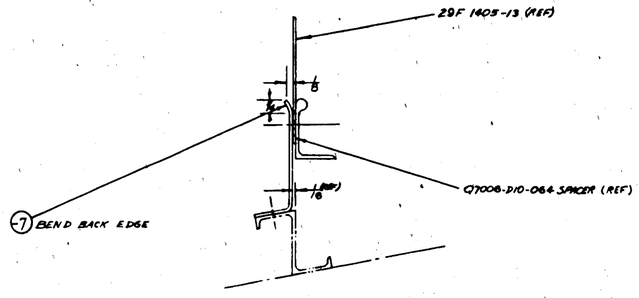
GRP. NAME

SIZE J

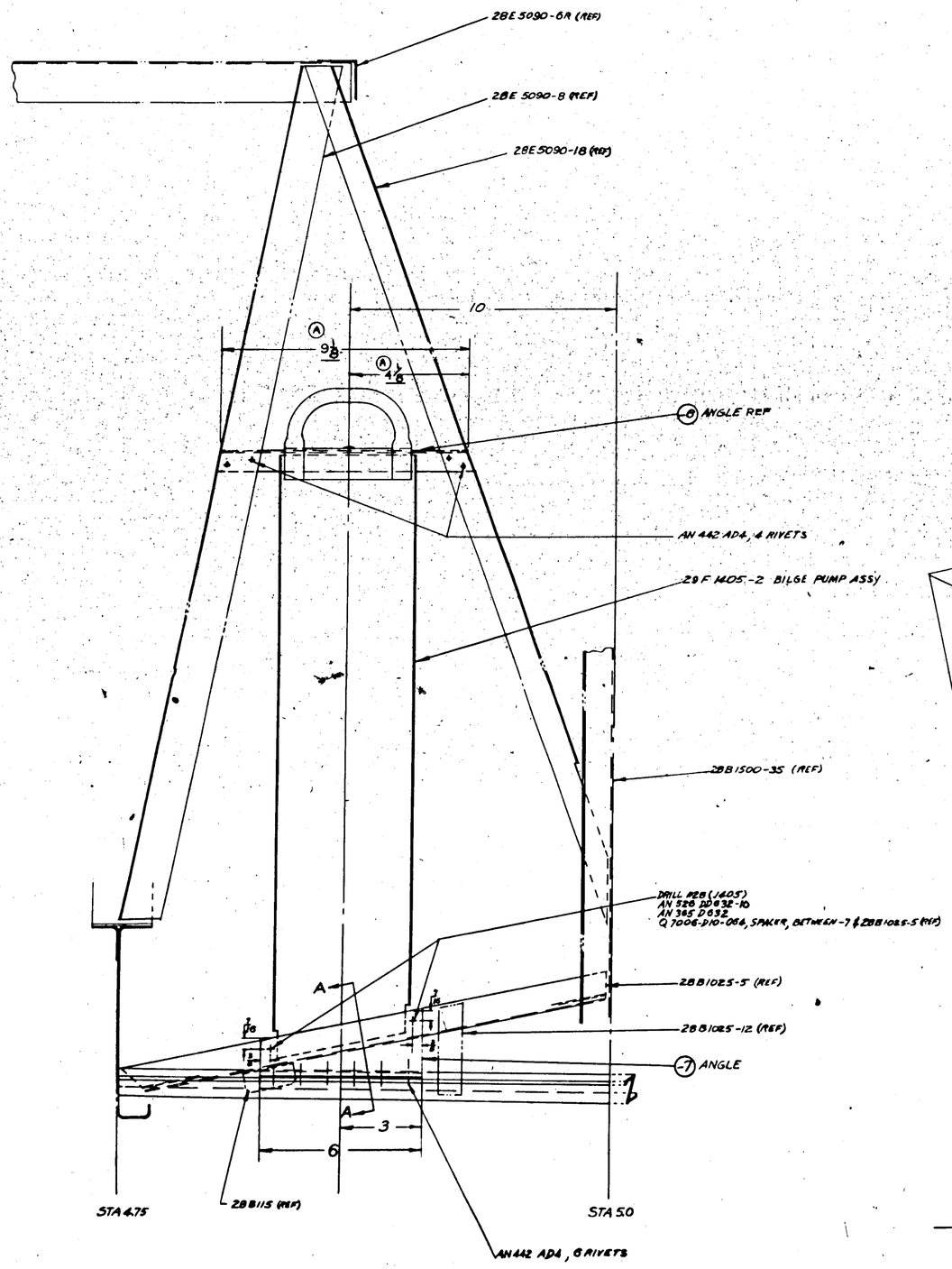
28F5293

EQA 11147
PBY-5

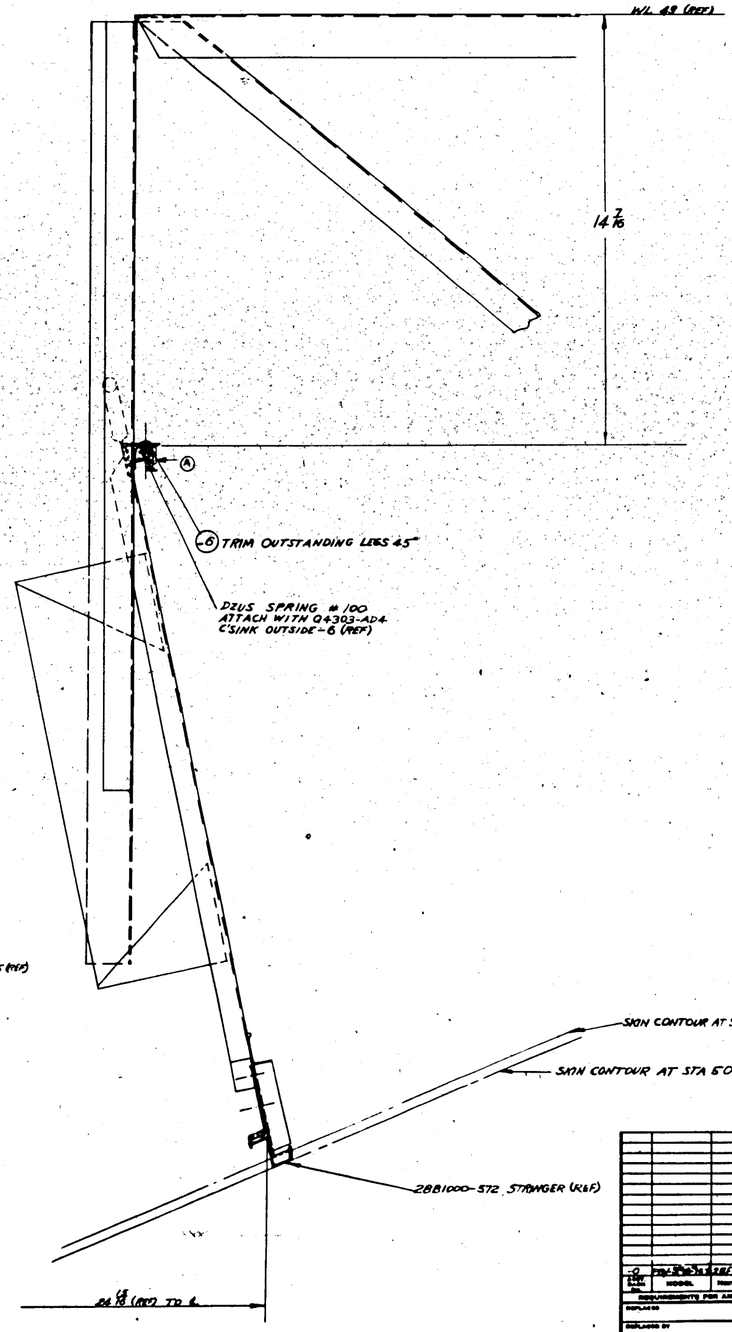
MET	ALTERATION	DATE	BY	MET	ALTERATION	DATE	BY
AM	ON PACK OF DWG 9/8 WAS 9/16, 4/8 WAS 4 1/8	7-29-41	SOBAY				



SECT A-A
SCALE: 12" = 1'0"



VIEW LOOKING OUTBOARD, STARBOARD SIDE



NOTE:
THIS INST. NECESSITATED BY LAWRENCE POWER UNIT (CHANGE "X")
S.O. 936-49

H 332

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ. -0	RH REQ. -2	LH REQ. -3	RH REQ. -4	LH REQ. -5	RH REQ. -6
	PARTS LIST PER ASSY.								
AN 442 AD4				2	2	2	2	2	2
AN 526 D2832-10				2	2	2	2	2	2
AN 365 D632				2	2	2	2	2	2
C7006-D10-064 SPACER				2	2	2	2	2	2
DZUS #100 SPRING				1	1	1	1	1	1
29F 1405-2 PUMP ASSY				1	1	1	1	1	1
-7	C64S3 3/4-0.8 ALCLAD	61S-T6 (CHART 1)		1	1	1	1	1	1
-8	K7B7-83A AL ALLOY	61S-T6 (CHART 1)		1	1	1	1	1	1

-0	28F1405-1	1									
ITEM NO.	MODEL	NEXT ASSY	QTY.								

REQUIREMENTS FOR AIRPLANE

REPLACED		ITEM NO.
REPLACED BY		ASY. NO.

LIST OF REFERENCE SHEETS (Latest Revision)
SCALE: 1" = 1'0" & NOTED
STAMP PART NUMBER UNDER ENGINE

A.S.									
NAVY NONE									
HEAT TREAT	FINISH								
NAME	INSTALL. - FURNS - STOW - BILGE PUMP.								
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.									

OPP. HAND	NONE
SIZE J	28F 5295

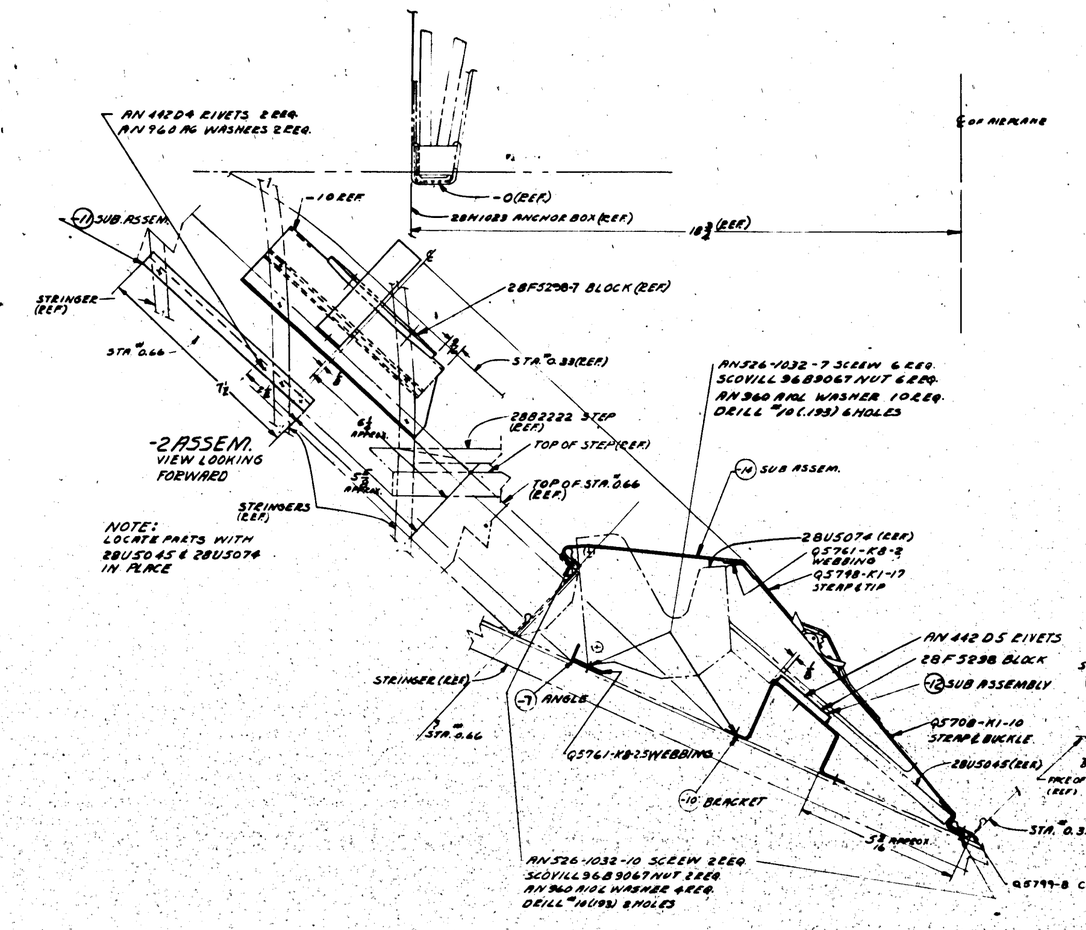
LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	ADDED DIM. "A" FOR ASSEMBLY TO FACE OF ...	6-3-41	[illegible]				
	DWG. & VIEW REVISED TO SHOW ...						
	CHGD. PARTS NOS. AS SHOWN IN BILL ...						
B-2	REVISED "A" & "G" BOTH SIDES						
	NOTE ADDED NOT A C.I.T. ...						
	ONLY TO VIEW LKG. OUTB'D	4-4-41	[illegible]				
C	FOR-CHANGE E-18 SUB ASSY						
	REMOVED AWAY-ON WITH ...						
	ADDED-DIA. HOLE CHANGE ...	5-21-41	GRAY				
D	-G MATL. SPEC. START WAR ...						
	ADDED REMOVED-SEALANT ...						
	AR-83 PRODUCTION ...						
	NO WT. CHANGE	5-21-41	GRAY				
E	ADDED LIMITATIONS	8-28-41	HENRY				
	C-18 ASTA. C-78544 E-20 TO ...						
	R/H IN FRONT OF AIR- ...						
	PLANE FOR. ADDED NOTE ...						
	FOR INSTALL. OF ROW ...						
	ARMOR --- SEE AND ADD- ...						
	ITEM. NO WT. CHG.						
F	SPECIFIED -18 SUB ASS'Y	9-24-41	HENRY				
	ADDED CALLOUT AT -18 TO ...						
	FACE. ADDED -18 TO R/H ...						
	SPECIFIED -18 SUB ASS'Y ...						
	ADDED TO PARTS LIST ...						
	-18 PREVIOUS & REQ'D AT						
	NEXT ASS'Y. NO WT. CHG.						
G	CHG'D DIM. IN -18 SUB ASS'Y.	4-22-42	HENRY				
	13/16 WAS 11/16. NO WT. CHG.						

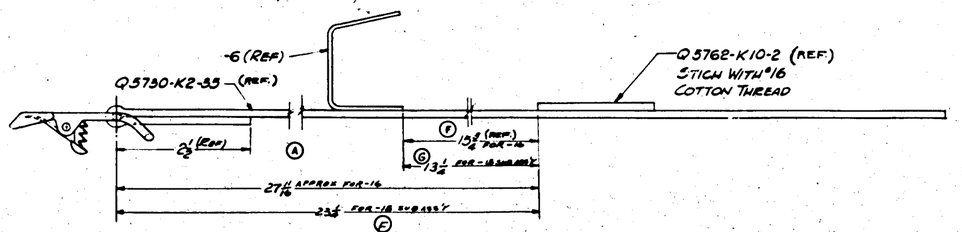
E.O. A-7048 K

E.O. A-67366 M.C.R. 932

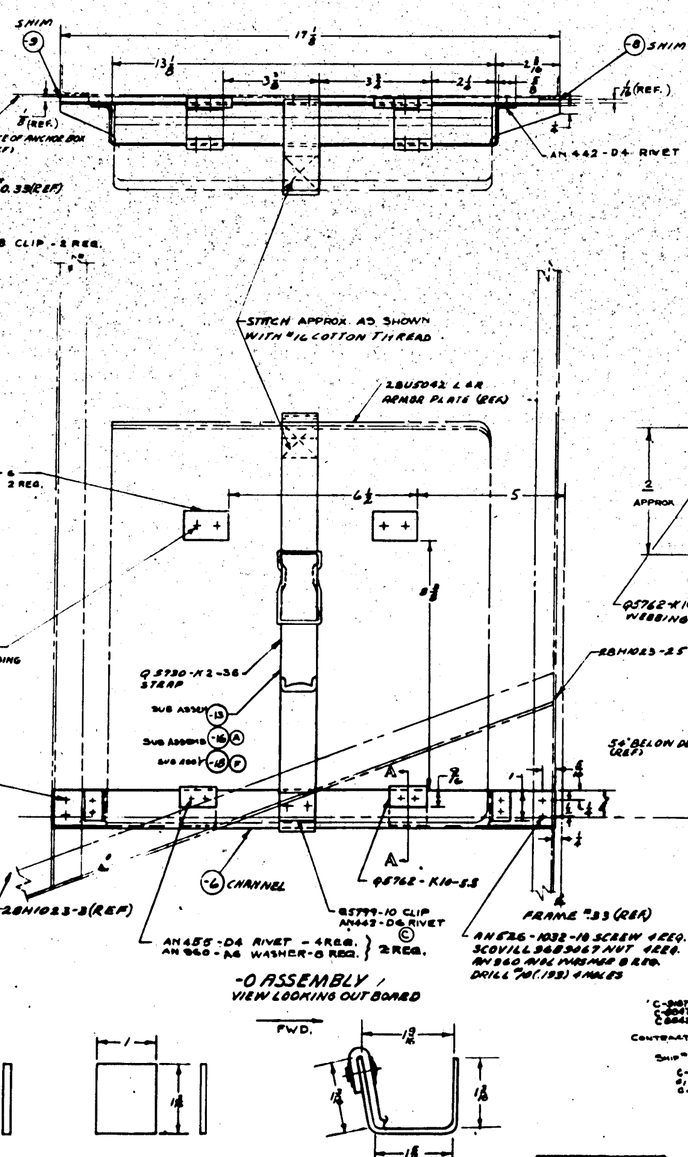
E.O. A-9677 D

E.O. 83765

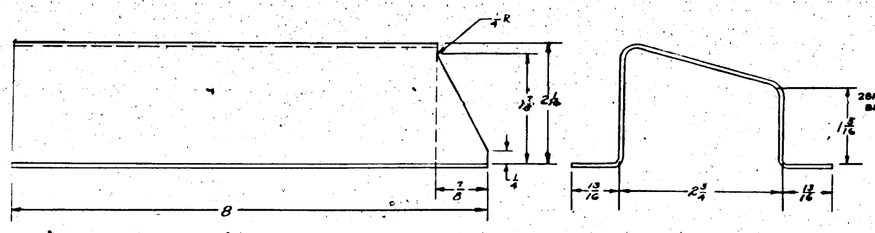




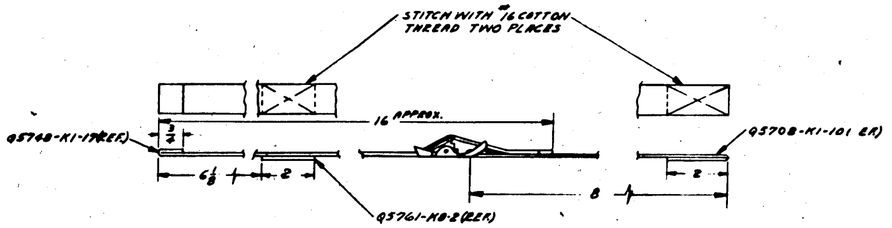
DETAIL -16 & -18 SUB ASSYS
SCALE: 12"=1'-0"

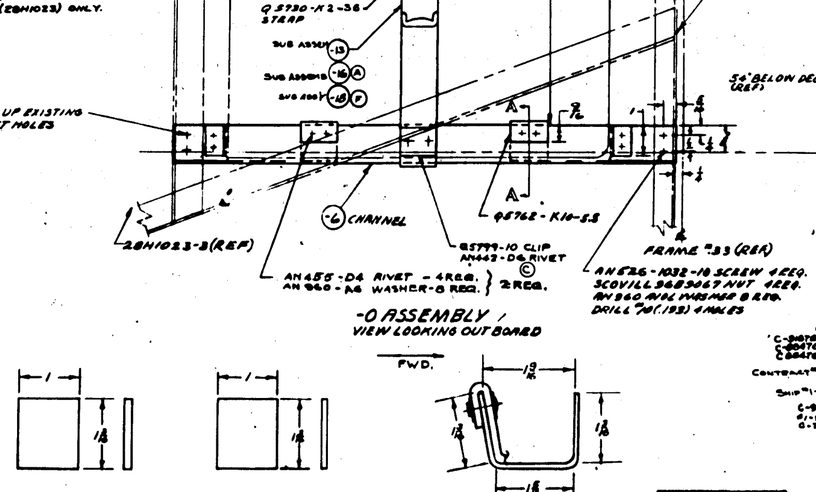


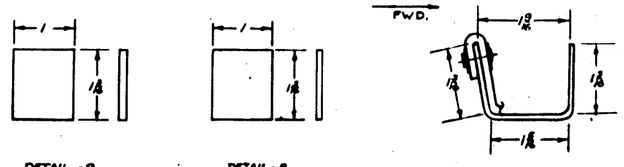
ALL BEND RADII 1/8



DETAIL -10
SCALE 12"-1'-0"







DETAIL -9
12"-1'-0"

DETAIL -8
12"-1'-0"

SECTION A-A
SCALE 12"-1'-0"

MAT'L NO.	CALC. DIM.	WT.
-0	.0	
-2	.0	

NOTE: FOR INSTALL. OF BOW ARMOR PLATE STOWAGE FOR C-9876 "D" (ON) SEE DRG. 28F6462

FINISH CODE	
A	ANODIC TREATMENT
P	PAINT PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

CLASS	
-18	PAT-BA
-10	PAT-S
-2	PAV-BA
-0	PAV-BA
-3	PAV-BA
-9	PAV-BA
-2	PAV-BA
-8	PAV-BA
-3	PAV-BA
-0	PAV-BA

Contract "11713"
Ship "1-83"
C-9876 "1-D" & "2-D" (D-70606)

PART NO.	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4	-8
				REQ.	REQ.	REQ.	REQ.	REQ.
Q5762-K10-5.5				2				
AN442-D6				2				
AFLB8-10				1				
AN960-A10L				16				
AN455-D4				8				
-18 SUB ASSEMBLY				1				
-8 MASKING FOR INT. PAINT		ALC SHT	47A8-T	1				
-18 SUB ASS'Y				1				
Q5762-K10-8				1				
Q5748-K8-56				1				
-18 SUB ASS'Y				1				
AN960A6				2				
AN960A10L				2				
Q5761-K8-56				1				
-7 V-ABUT-16				1				
-11 SUB ASSEM				1				
Q5761-K8-2				1				
Q5708-K1-17				1				
-14 SUB ASSEM				1				
AN455-D5				3				
REPEATED								
-10 455 x 28N1036		ALC SHT	47A8-T	1				
-12 SUB ASSEM				1				
AN526-1032-7				6				
AN960 A10L				10				
AS3504				8				
AN526-1032-10				2				
Q5744-A				1				
Q5708-K1-10				1				
-4 SUB ASSEM				1				
-6 SUB ASSEM				1				
-11 SUB ASSEM				1				
Q5748-K10-3				1				
Q5740-A3-18				1				
-14 SUB ASSEM				1				
Q5798-K10-55				2				
AN442-D4				2				
Q4503-10				2				
AN960-A6				16				
AN426-D4				6				
-4 SUB ASSEMBLY				1				
-6 RIVETS 2117-T		ALC SHT	47A8-T	1				
-12 SUB ASSEM.				1				
28F5294				2				
-12 SUB ASSEM				1				
-3 RIVETS 2117-T		ALC SHT	47A8-T	1				
-4 RIVETS 2117-T		ALC SHT	47A8-T	1				

PARTS LIST FOR ASSY.

A.C.				F. CODE
NAVY				BILL NO.
NEXT HIGHER	DRAWN	DATE	3-18-41	ISSUED
	TRACED	CHECK		
	DESIGN	ENGR. APPR.		

NAME: INSTALL.-BOW ARMOR PLATE STOWAGE

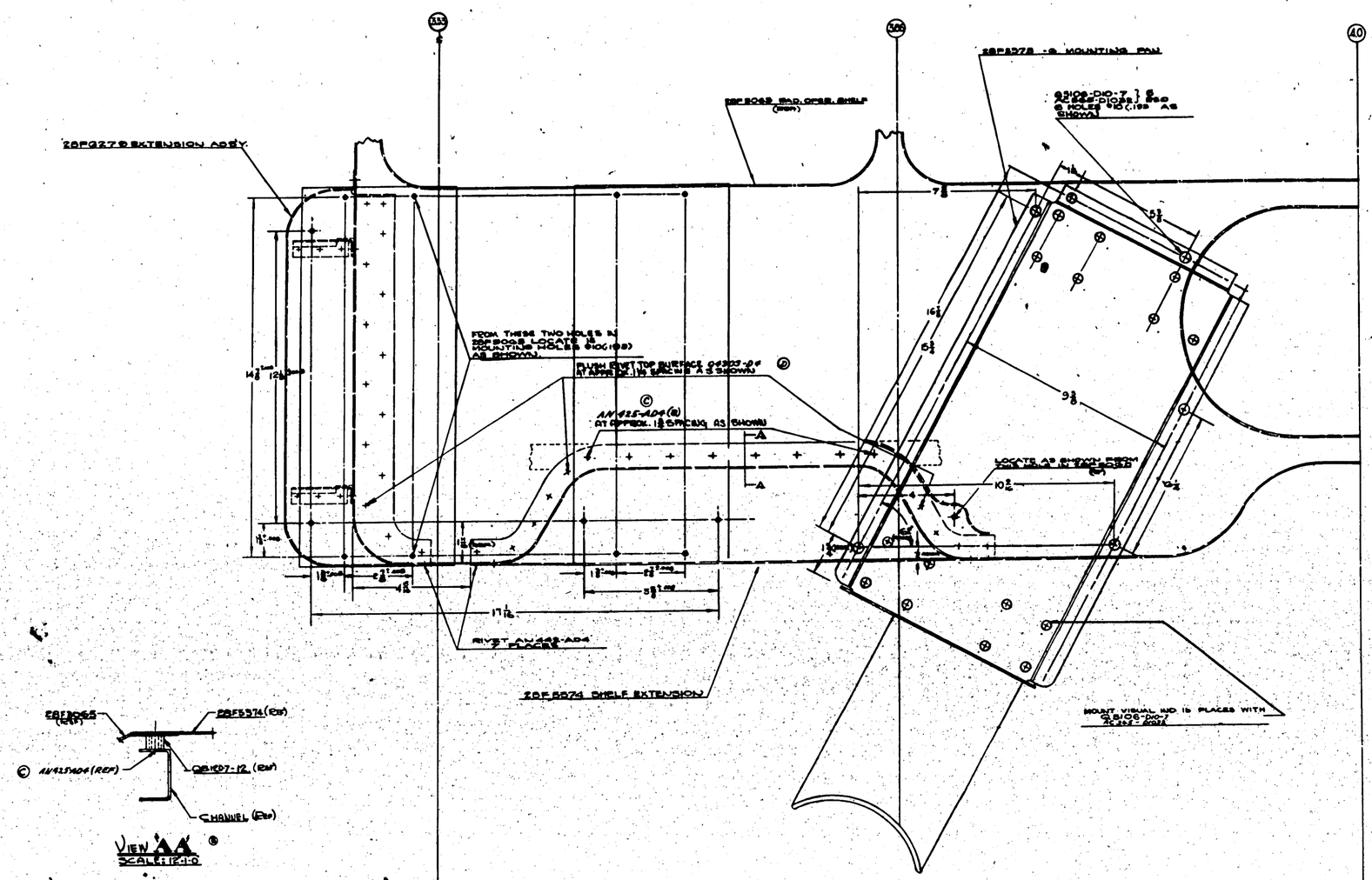
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J — DWG. NO. 28F5297

H 333

LTR	ALTERATION	DATE	BY

LTR	ALTERATION	DATE	BY
A	ORIGINAL RELEASE PER E.O. A3/1930	2-5-43	
B	ADDED WIRE NUMBERS	2-11-43	
C	ADDED ITEMS 4 & 5 PER E.O. A3/1930		
D	ADDED ITEM 6 PER E.O. A3/1930		
E	ADDED ITEM 7 PER E.O. A3/1930		
F	ADDED ITEM 8 PER E.O. A3/1930		
G	ADDED ITEM 9 PER E.O. A3/1930		



Q3106-DIO-7		34	
AC825-DIO28		34	
AN442-AD4			
AN455-AD4			
QB1007-12		8	
28F5303-8			

	CALA 28D20 TYPE 'A' INSTRUMENT CHASSIS	1	
	CALA 1248 MOUNTING BASE	1	
	CALA 1265 TYPE 'A' UNIT INDICATOR	1	
	VISUAL INDICATOR	1	
	RU RECEIVER - NAF 215248	8	
	28F5278 SHELF EXTENSION ASSY.	1	
	28F5374 SHELF EXTENSION 28F5272 MOUNTING PAN	1	

* GOVERNMENT FURN.

C70496 & CP91870 W/C30 CONTRACTS W70496/77715 PART OF CONTRACT W58478

NOTE: - CONTRACTOR - INSTALLED ON SHIPS OF CONTRACT W58478 & W6708
- ON CONTRACT W70496 (35 SHIPS) AT7718 PARTS ARE TO BE FURNISHED TO NAVY FOR SERVICE INSTALLATION

Rel. released 2-16-43

H 334

| | | |

* ARMAMENT SUBASSEMBLY CODES *59 - MODEL P&W-2
*51 - MODEL P&W-2
*18 - MODEL P&W-2A

DRILL #10 (.1935) 1 PLACE TO MATCH Q5799-B (REF)
Q5106D18-12 (1)
AC372-D10SE (1)
AN960-A10 UNDER HEAD

Q5748-K1-18 FOR P&W-2
Q5748-K1-12 FOR P&W-2A

Q5799-B

Q5708-A1-6

DETAIL A
STAR'B'D SIDE LOOKING OUT'B'D
HALF SIZE

DRILL #10 (.1935) 1 PLACE TO MATCH Q5799-B (REF)
AC372-D10SE " (1)
Q5106D10-12 " (1)
AN960-A10 (1) UNDER HEAD

Q5799-B

Q5748-K1-18 FOR P&W-2 MODELS
Q5748-K1-12 FOR P&W-2A

Q5708-K1-6

DETAIL B
HALF SIZE

LOWER BUNK (REF)

BUNK SUPPORT (REF)

*BILGE & REFUELING UNIT RG-4635 ON -0 ASS'Y ONLY. (GOV. FURN)
*REFUELING UNIT RG-4650 ON -2 ASS'Y ONLY. (GOV FURN)

WORK PLATFORM STOWAGE (REF)

ELECT. WIRE WIND AROUND UNIT A

Q5726-K1-18 (REF) FOR P&W-2A
Q5726-K1-24 (REF.) FOR P&W MODELS SEE NOTE C

28F5785-2 ON -0 ASS'Y
28F5785-3 ON -2 ASS'Y

LOCATE HOSE ATTACHMT STRAPS MIDWAY (APPROX) BETWEEN THESE STEINGERS

Q5726-K1-18 (REF) FOR P&W-2A
Q5726-K1-24 (REF) FOR P&W MODELS SEE NOTE C

19 1/2" APPROX. -2 ASS'Y ONLY
24 1/2" APPROX. -0 ASS'Y ONLY

AIRFRAME

A

VIEW LOOKING AFT
STARBOARD SIDE OF SHIP

* 2 LENGTHS OF GASOLINE RESISTANT HOSE (ONE 25' LONG & ONE 10' LONG) GOVERNMENT FURNISHED

WORK PLATFORM STOWAGE (REF)

28B5590-98 (REF) (ON -2 ONLY)

28B1500-36 (REF) (ON -0 ONLY)

DETAIL A

DETAIL B

ANGLE-A84 (2)

DRILL #18 (.1695) (4 PLACES)
Q5106D10-7 IN
AC372D10SE IN

6 APPROX.

A

VIEW LOOKING OUT'BD
STARBOARD SIDE OF SHIP

NOTES: 1. PROVIDE TWO Q5726-K17-24 STRAPS FOR P&W-2 (REPLACE K-18 (2)) FOR P&W-2A CLAMP THE HOSE TOGETHER OUTSIDE THE AIRFRAME. C

MAT	SPECIFICATION	SHAPE	QTY	ITEM	DESCRIPTION	SHAPE	QTY
				A	CLIP, 12 GA. ASSEMBLY - QUALITY APPROVAL REQUIRED. SEE NOTE 1		
					WAS 11 GA. ASSEMBLY, AS REQD PER 28F5380 DWG		
					28F5380-A ASSEMBLY PER -0 ASSY ONLY		
					WAS 11 GA. WAS 5.6 LBS EACH WAS 6.2 LBS.		
					6.2 LBS. NET WT. EACH	6.2 LBS	
				B	BRACKET - 6 REQUIRED PER -0 ASSY		
					TYPE 321 CRES 1/2 HARD SHEET PER QQ-S-766 SEE NOTE 2		
					DIRECTIVE TO STRAIGHTEN LINES		
					C.G. SPECIAL A BENT BRACK. WT.		
					CRES. MISC.	2.2 OZ	
				C	BRACKET - 4 (10.81 BTU/HR-FT-°F) REQUIRED PER -2 ASSY		
					MACHINED FROM 1" SQUARE BAR STOCK (0.5) MIN PER ASTM-A276 TYPE 304		
					CRES AS PER QQ-S-763 SEE NOTE 2		
					WT. 0.7 LB WT. 6.7 OZ EA		
				D	ANGLE, TO SIDE BRACE - 2 ASSY REQUIRED PER -2 ASSY (SEE NOTE 3)		
					WT. 2.4 LBS WAS 2.7 LBS	2.4 LBS	
				E	BRACKET, TOP WALL STRAP - 10 REQUIRED PER -2 ASSY (SEE NOTE 3)		
					(Q5337-10 (1), DRILL #10 (.1935) (2 PLACES) (1), DRILL #18 (.1695) (2 PLACES) (1), DRILL #27 (.144) (2 PLACES) (1))		
					ADDED -2A DETAIL A *1 THRU 3		
					FIND LOCATING PUNCHMARKS & FORM -2 ASSY. (MARK ON MOLD)		
					ACS72 CRES (1) WAS (2)		
					WT. (-0) WT. CRES. AREA	0.3 OZ	

*	BILGE & REFUELING UNIT RG-4635 GOVERNMENT FURNISHED FROM PARKER-HANNIFIN CORP. ELYRIA, OHIO. OR RG-4635-A MAYBE USED	1	-
*	REFUELING UNIT RG-4650 GOVERNMENT FURNISHED FROM PARKER PUMP CO., ELYRIA, OHIO	-	1
*	2 LENGTHS OF GASOLINE RESISTANT HOSE (ONE 25' LONG & ONE 10' LONG) GOVERNMENT FURNISHED.	1	1
	Q5748-K1	2	2
	Q5748-K1-6	2	2
	Q5748-K1-12 (P&W-2A (MDLS *51))	2	-
	Q5748-K1-18 (P&W-2 (MDLS *59 & *51))	2	-
	Q5726-K1-12	-	2
	Q5726-K1-18	2	2
	AN960-A10	2	2
	Q5106D10-12	1	1
	Q5106D10-7	4	4
	28F5380-1	2	2
	28F5380-2	2	-
	28F5380-3	-	2
	28F5380-4	1	-
	28F5380-5	-	1

CONTRACT NO. 00476 (MDLS *51) CONTRACT NO. 91876

| | | | | |

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	CREATED - R ASSY BY MAKING -700 FOR -0 ASSY FOR PBY-5A & -701 FOR -2 ASSY FOR PBY-5. FROM -1e ADDED WOLAN INDICATED THUS ✦ FOR -2 ASSY ADDED NOTE 7. BLANK R. CAST NOTE FOR PBY-5 WAS 28A76-1016 ON.	8-12-41	[illegible]
B	ADDED 28F063-2 (2) R.H. & L.H. REQ'D. SINGLE SIDED TO REQUIREMENTS.	4-12-42	[illegible]
C	TO FACE R -2 ASSY ADDED ARRETTED ANGLE - A5E-700 AC365-832 EQUIV. ALS W/ CHG TO C.	3-13-42	[illegible]
D	ADDED WTS. -0 = 7.27 lbs -2 ASSY = 7.30 lbs	9-22-42	[illegible]

SECTION "D-D"
SCALE: 12"-1'0"
TYPICAL CLIP ATTACHMENT
2 PLACES

SECTION "C-C"
SCALE: 12"-1'0"
TYPICAL CLIP ATTACHMENT
8 PLACES

Q5106-D10-10
AC365-D1052
#10(.193) HOLE

Q5106-A7-8 CLIP (2 REQ.)

Q5106-D10-10 & AC365-D1052 #10(.193) HOLE

Q5106-A7-8 CLIP (8 REQ.)

THESE DIMS. APPROX. ONLY - TRIM ON INSTALLATION

⑧ "NB (.161) HOLE 8 PLACES

⑥ -700 OF -0 SUBASSY FOR PBY-5A SEE NOTE 2
-701 OF -2 SUBASSY FOR PBY-5 SEE NOTE 2

ATTACHING -7 TO -8 RIVET AN426AD4-16 (16 PLACES) AS SHOWN

28F754 (REF.)

28F063-2 (REF.)

28F063-2 (REF.)

28F063-2 (REF.)

INSIDE AREA (7 PLACES)

GROUND (3 PLACES)

GROUND

Q5106-D10-7
AC365-D1052
#10(.193) HOLE (3 PLACES)

Q2150-7-10 BEAD
10
(REQ'D.)

SECTION "B-B"
SCALE: 12"-1'0"
TYPICAL BEAD SECTION (7 REQ'D.)

SECTION "A-A"
SCALE: 12"-1'0"
TYPICAL DEPRESSION

28F7548

AN526-832T (2)
AC365-832 (2)
Q7102-ALB (4)

28F063-2 LAMP BRACKET
WF 1017-1 LAMP

28F063-2 LAMP BRACKET
WF 1017-1 LAMP

28F063-2 LAMP BRACKET
WF 1017-1 LAMP

ATTACHING -7 TO -6:
RIVET AN442-AD4
26 PLACES AS SHOWN

NOTE: ALL BEND RADII 3/16 UNLESS OTHERWISE NOTED

⑧ NOTE 2 ALL HOLES UNLESS OTHERWISE NOTED TO BE Ø .5 (#05)

⑧ NOTE ✦ HOLES INDICATED
THUS ✦ FOR -2 ASSY (8 HOLES)
THUS ✦ FOR -0 ASSY (18 HOLES)
THUS ✦ FOR -0 & -2 ASSYS (1 HOLES)

FINISH CODE	
Z	ANODIC TREATMENT
P	P.T. PRIMER
GP	GREEN PRIMER
C	CADMIUM PLATE

-2	7.30
-0	7.27
ASSY	WEIGHT

PART NO.	STOCK	MATERIAL	SPEC.	-0 REQ	-2 REQ	-3 REQ	-4 REQ	-5 REQ
AC365-D1052				11	11			
AN442-AD4				-	-			
AN426-AD4				5	5			
Q5106-D10-7				3	3			
AC365-832				2	2			
28F1017 - 1 LAMP ASSEM				3	3			
28F063-2 LAMPBRACKET				3	3			
28F754				1	1			
-701 MAKE FROM -6								
-700 MAKE FROM -6				1	1			

-5	PBY-5A	28F5383	1						
-4	28F5384	[illegible]	1						
-3	PBY-5A	28F5382	1						
-2	PBY-5	28F5384	1						
-0	PBY-5A	28F5384	1						
LET	MODEL	PART ASSY	QTY						

REQUIREMENTS FOR AIRPLANE
REPLACES 28F5384 NOTED
REPLACED BY
DRAFTSMAN'S INITIAL: Vbe
SCALE: 0-1'0"
STRUCT. PART NUMBER WORKING DRAWING

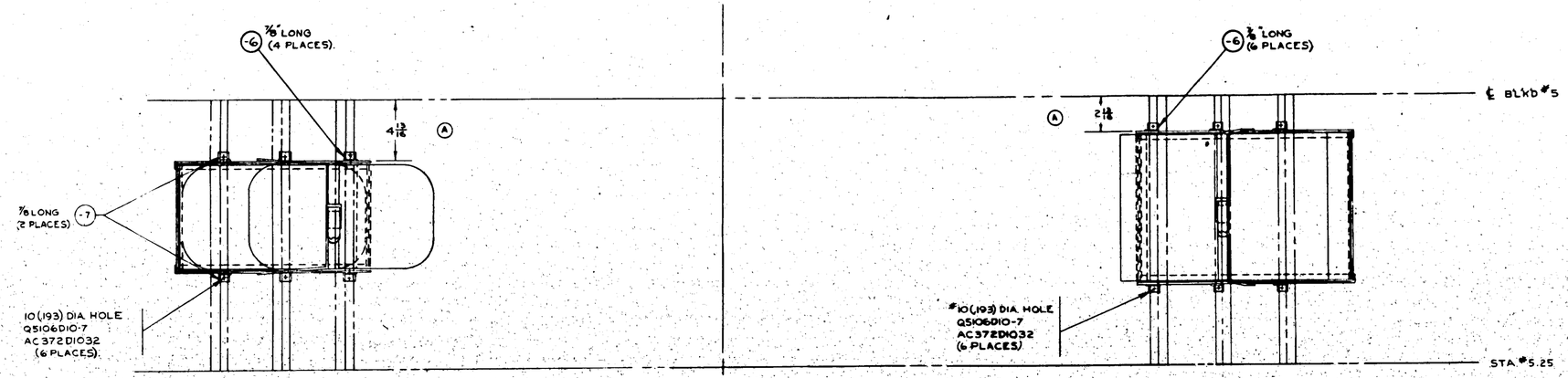
2A			
INITIAL DES. ENGR.	ZPAP-6706		
CHIEF ENGR.			

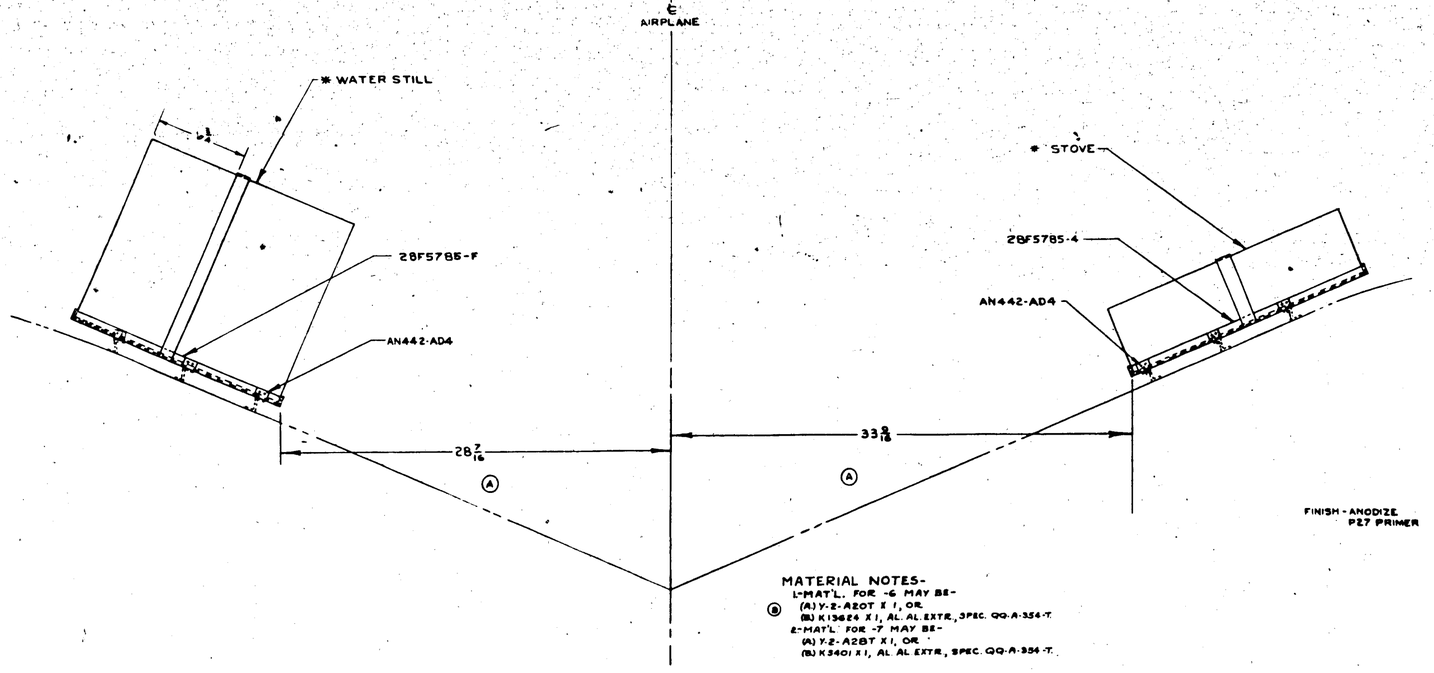
NAME: SHELF ASSY.-FUEL-RADIO OPERATORS
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.
SIZE: J
DWG NO. 28F5384

H 336

LET	ALTERATION	DATE	BY
A	TRACED DIFFERENCE TO POSITIVE		
	ADD 3 HOLES 1 WAY 1 TELL 28 7/16		
	33 9/16 IN. 33 9/16 WAS 33 1/16		
	4 HOLES 2 WAY 2 TELL 4 1/16 IN.		
	4 HOLES 2 WAY 2 TELL 2 1/16 IN.		
	NO WK CHG.	1-22-43	
B	ADD (-7) PART NO. AN442AD4, AND -6 "X" 28F5785-4		
	ALL AL. ALLOY 24 SW T "MOD" COVER 2 PAR -7		
	REPLACED "X" 28F5785-F ALL AL. ALLOY		
	24 SW T" WITH "NOTED" ADDED PARTS.		
	NOTES 1, 2 & 3 W/C CASE NOS.	11-18-43	

10°A360888A





MATERIAL NOTES-
L-MAT'L. FOR -6 MAY BE-
(A) Y-2-A2OT X 1, OR
(B) K13624 X 1, AL. AL. EXTR., SPEC. QQ-A-354-T.
2-MAT'L. FOR -7 MAY BE-
(A) Y-2-A2BT X 1, OR
(B) K3401 X 1, AL. AL. EXTR., SPEC. QQ-A-354-T.

VIEW LOOKING FORWARD

B GOV. FURNISHED EQUIP

CONT 88476
CONT 91876

RUSH RELEASED 3-20-43

PART No.	STOCK	MATERIAL	SPEC.	REQ -0	REQ -2	REQ -3	REQ -4	REQ -5
-7	NOTED	NOTED	NOTED	2				
-6	NOTED	NOTED	NOTED	10				
* WATER STILL				1				
* STOVE				1				
28F5785-4				1				
28F5785-5				1				

PARTS LIST PER ASSY.

A.C.		DRAWING	RELEASED	CHECK	C. PATH		REVISIONS
NAVY NONE	-6 & -7 E-P & NOTED	2-27-43	3-20-43				WELD 1/10
HEAT TREAT	FINISH	DRAFT	STRESS	STRUCT	DAT	APPROV	DWG

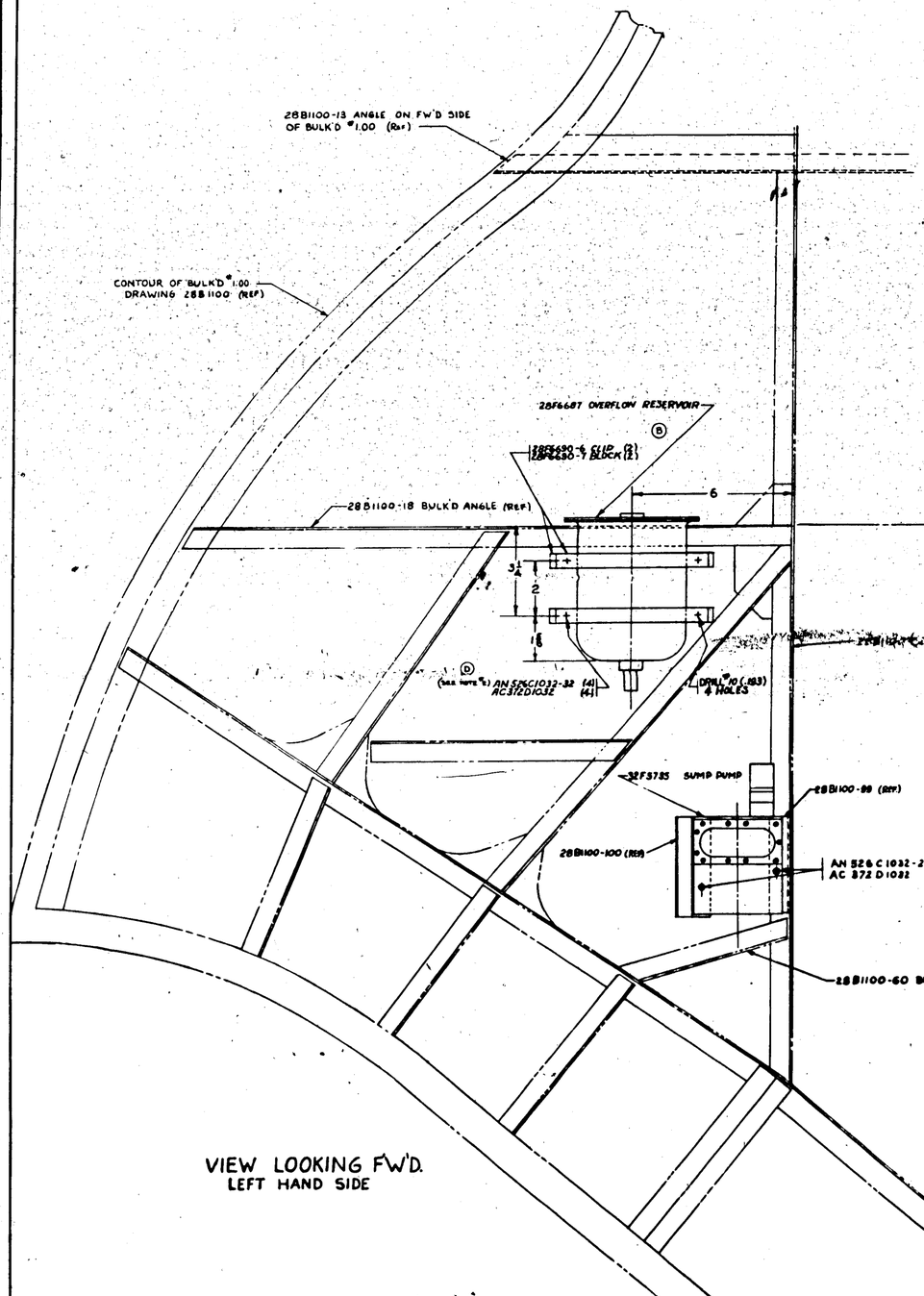
NAME INSTALL.-FURN.-WATER STILL & STOVE-STOWAGE

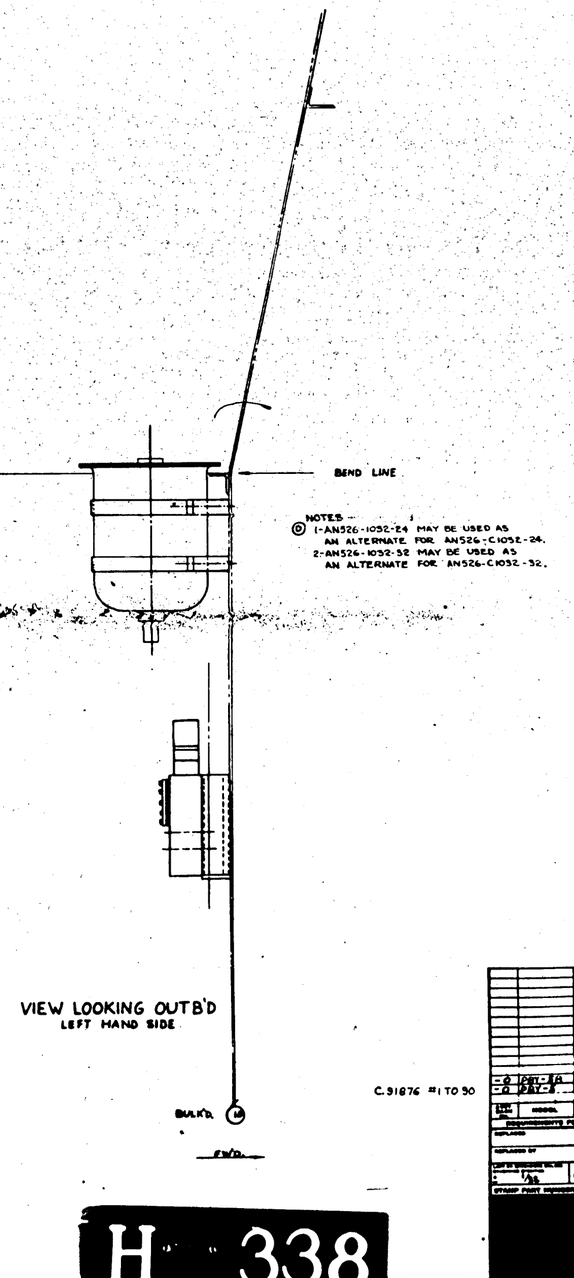
DWG NUMBER SIZE J 28F5402

H 337

LET	ALTERATION	DATE	BY
A	MOVED (PART PAGE) OVER FLOW RESERVOIR OUTBOARD		
B	CREATED -2 ASSY FOR PAY-3 C.91876 #1 TO 90 NO WT CHG	4/10/	
C	CREATED -3 ASSY.		
D	IN B.H. 4 ON FACE ADDED 'MSE' WHITE "1" TO ANGLE-C1032-24. IN B.H. 4 ON FACE ADDED 'MSE' WHITE "2" TO ANGLE-C1032-32. TO FACE ADDED NOTES "1 & 2". (NO WT. CHG.)		
E	ON PART OF DWG. 2.IN WAS RE-MOVED -2 ASSY CONSISTING OF REFERENCE(1) AN526C1032-24(2) AC372D1032(2), 1-3ASSY CONSISTING OF REFERENCE(1) AC372D1032-6-2N(2) AN1004-4(2) NWT. CHG.		

EOA81429
MCR 2574
MCR 2578





C.91876 #1 TO 90

PART NO	STOCK	MATERIAL	SPEC	LH REQ	LH REQ	LH REQ	LH REQ	LH REQ
				-0	-2	-3	-4	-5
AC372D1032								A
AN526C1032-32 (SEE NOTE #2)								A
AN526C1032-24 (SEE NOTE #1)								A
32F3735								1
28F6680-1								2
28F6680-2								2
28F6687								1

PARTS LIST FOR ASSY.

-0	DRY-1	28F5403	1						
-0	DRY-3	28F5403	1						

LAST NO.	MODEL	PRINT ASSY	SER
REQUIREMENTS FOR ASSEMBLY			
EXPLODED		6-24	
EXPLODED BY		DATE	
LIST OF DRAWINGS INCLUDED		SCALE 6"=1'-0"	
DRAWN PRINT REVISION DRAWING CHECKED			

A E			
PAINT	NONE	NONE	
HEAT TREAT		FINISH	

NAME	INSTALL'N OVERFLOW RESERVOIR AND SUMP PUMP SPERRY SYSTEM	DWG NAME	
CONSOLIDATED AIRCRAFT CORP.		SIZE J	28F5403

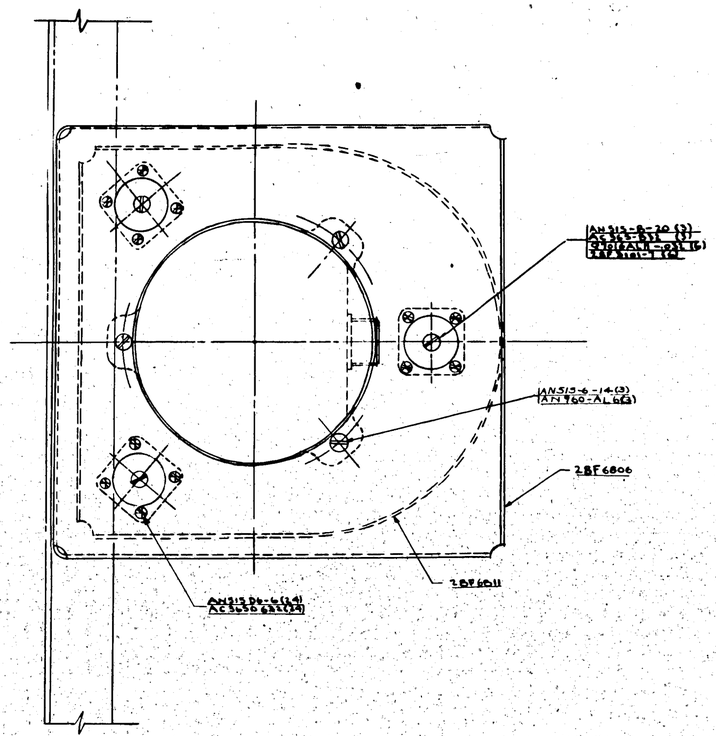
H 338

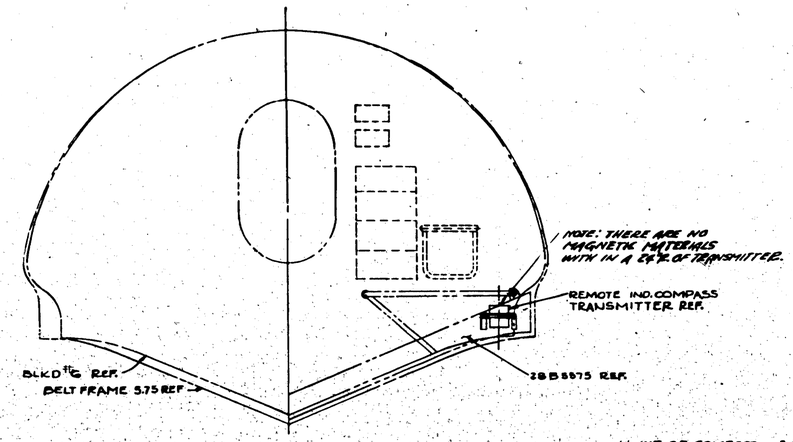
28F5403

LET	ALTERATION	DATE	BY
A	RELOCATED PLUG ON COMPASS TRANSMITTER, NO WT. CHG.	4-2-43	MARKEY
B	DWG. REVISED TO SHOW AN960-A10 WAS 4 REQ'D. ADDED AC365D1032(6) & AN960-A10 (6). WT. CHG. NEG.	4-2-43	MARKEY

E.O. A70036

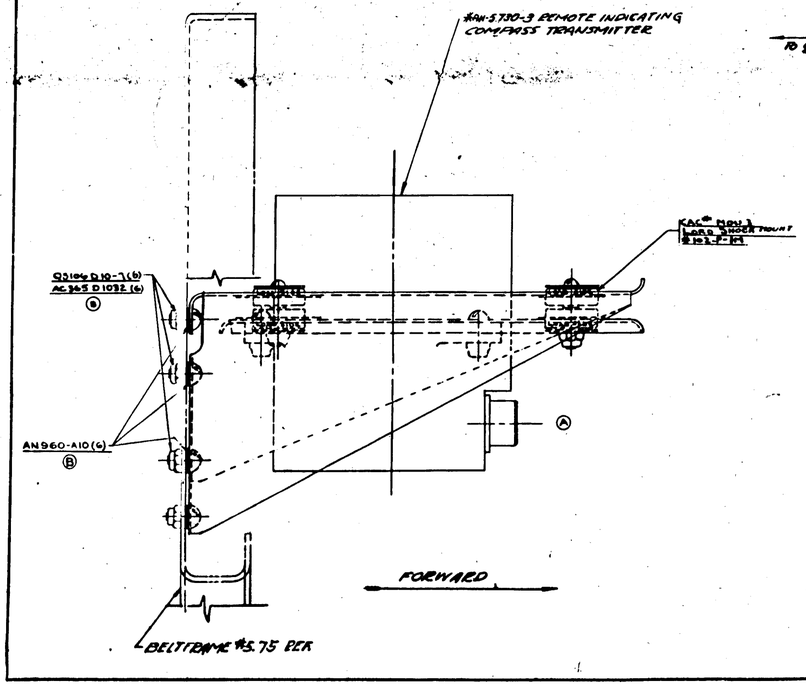
E.O. A890630

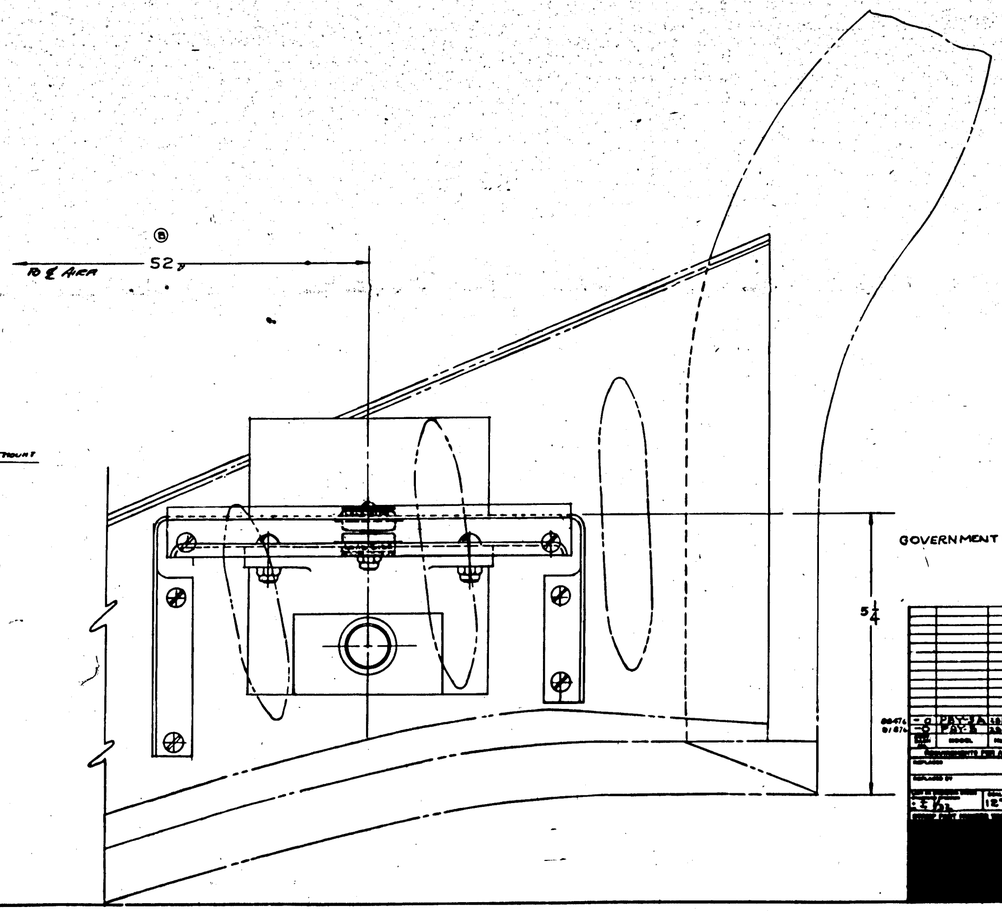




VIEW LOOKING AFT AT BLKD #6 & BELT FRAME #5.75
SCALE 1"-1'-0"

WT. OF COMPASS 3.10#
WT. OF MOUNTING BRK 1.31
TOTAL WT. 4.41#

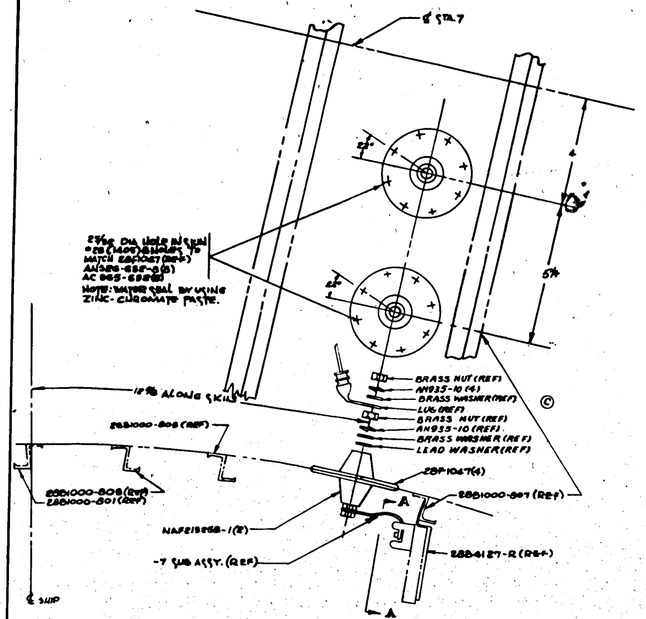




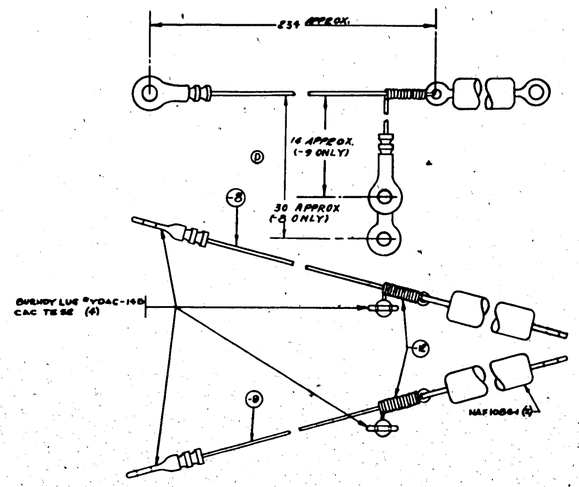
GOVERNMENT FURN'S AN-5730-3 REMOTE IND. COMPASS TRANSMITTER

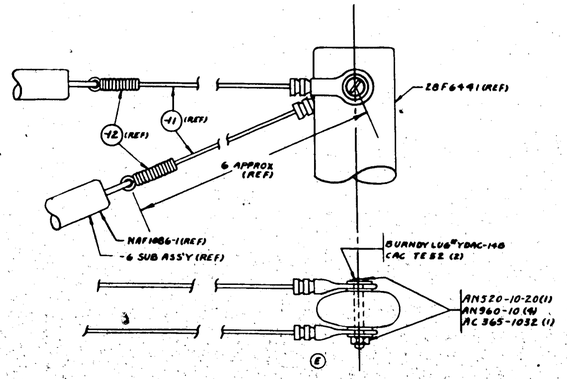
CALIFORNIA LEAD SCREW MOUNT # 184-D-174

| | | |

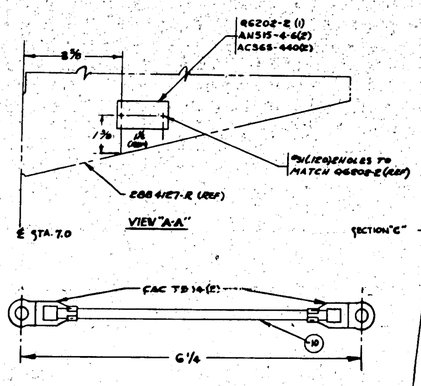


SECTION "C"
VIEW LOOKING FORWARD
SCALE 6"=1'0"

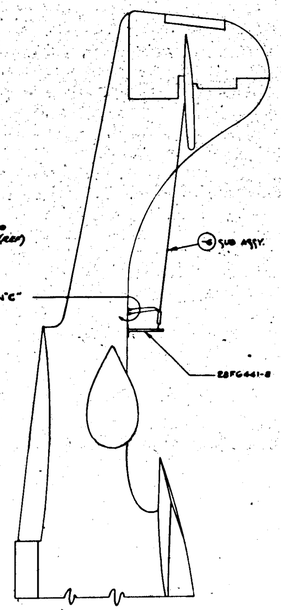




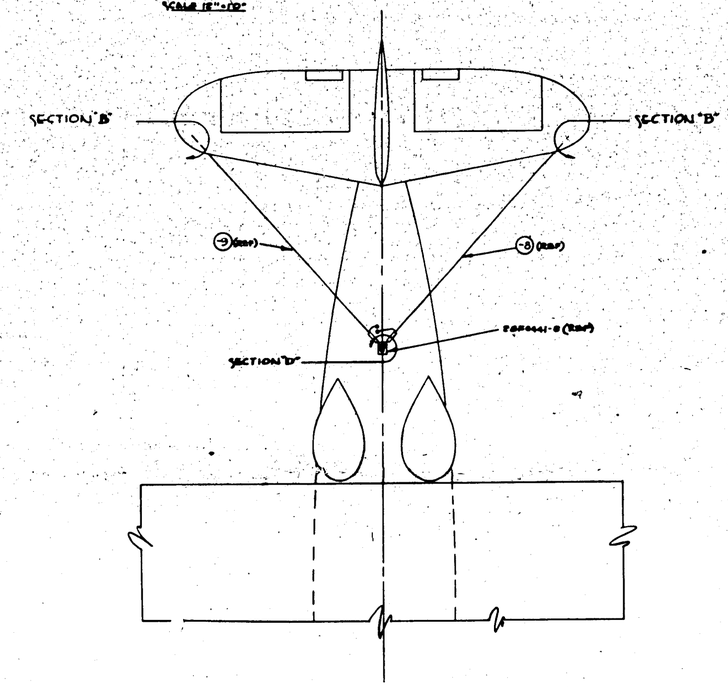
SECTION "D"
SCALE 12"=1'-0"



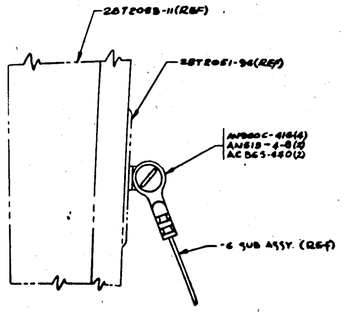
DETAIL -7 SUB ASSY
SCALE 12"=1'0"



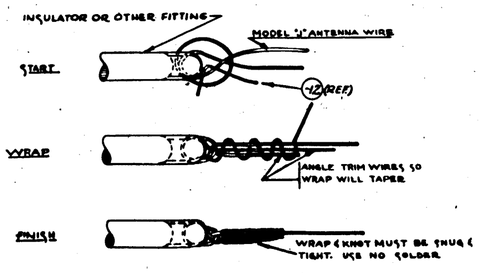
DETAIL -6 SUB-ASSEMBLY
SCALE 12"=1'0"



NOTE:- AFTER COMPLETION THOROUGHLY SATURATE EACH KNOT WITH METHYL-KETONE. WIPE OFF EXCESS WITH CLEAN DRY CLOTH.



SECTION "B"
SCALE 12"=1'0"



CLOVE HITCH- TYPICAL OF ALL WIRE MECHANICAL CONNECTIONS EXCEPT NOTED

LET	ALTERATIONS	DATE	BY
A	IR 8/16-11 CAC "WIRE 16-8X7x49" COD PLATED COPPER WIRE (WAS -16 OR -18 WIRE LENGTH SEE CHG.		
	PLATED COPPER WIRE (WAS WIRE LENGTH SEE CHG.		
A	-1 WAS .031" DIA WIRE (WAS -2 WIRE WAS .063" DIA WT. CHG. REQ.		
C	CHG. TO CONNECTOR TO POLYESTER BACK CABLE CLAMP (WAS -4 TO). WT. CHG. REQ.		
B	ADD HOLE OF DIM. BETW. -4 AND -5		
	PART SIZE DWG-9, ADDED DIM TO APPROX C-BEND (LIMITED DWG TO APPROX C BENDS DIMENSIONS APPROX WAS) ALSO APPROX. IR DIM-A AND -B WAS -2 PLC. ADDED (EQUIV. WAS -2 WAS A SUBSTITUTION (5) ADDED -8)		
	ADD .2 WIRE LENG. (2) TO WT CHG. REVISED SEC 9-1 PAGES 201 (7330)		
E	ADD (2) -12 (REF) AND (1) TO AC 365-1032 (1) CAC TE82 (2) DELETE IR-8 SUB ASSY (REF). WT CHG. NIL		

NAF Z13756-2D (1) — Z8F1216-10 HOSE (REF) — (58) (REF) — Q908-A6-8 (1) AN 526-DD1032-10 (1) AC 365-D1032 (1) — (59) (REF)

SPERRY UNIT (88?) — TO 4 WAY VALVE — TO SUMP PUMP — NAF Z13697-4D (1) NAF Z13690-6D (3) — Q 985 A7 (2) AN 526-D862-8 (6) AC 365-D852 (6) — OUT — IN

Q 908-A14-8 (2) AN 526-DD1052-12 (2) AC 365-D1052 (1) — Z8C E094 BRACING (REF)

AIRPLANE

-2 & -87 ASSYS
BULK'D LOO
VIEW FORWARD.

NAF Z13692-6D (1) NAF Z13690-6D (8) — (52) — NAF Z13685-8D (1) NAF Z13690-8D (2) — NAF Z13685-8D (8) NAF Z13687-8D (8) NAF Z13690-8D (2) NAF Z13690-6D (4) LOCATE 50 AS TO CLEAR COWL FLAP BRACKET SUPPORT ANGLE.

SPERRY "AE325 SUMP TANK AN 5-D05A (4) AC 365-D526 (8) FOR INSTALL'N SEE Z8F5348 — (54) Z & 87 ASSYS — (52) -0 ASSY. — (50 TOP) — (51) Z8F1556 (1) — BULKHEAD IN END OF CENTER SECTION LENDING EDGE - R.H. SIDE.

NAF Z13695-8D (1) NAF Z13690-8D (1) — (53) Z8F1558 (1) — NAF Z13826-8D (2) NAF Z13850-8D (2) NAF Z13690-8D (4)

NAF Z13701-3D (1) NAF Z13765-5D (1) — Q 925-A8 (1) Q 928-A20 (1) AN 816-8D4832-7 (6) AC 368-D852 (6)

SPERRY "644256 OIL REG. AN 4-DD-6A (4) AC 365-D826 (4) FOR INSTALL'N SEE Z8F5348 — NAF Z13711-10D (1) Z8F4304-2 HOSE (1) — R.H. MAGNUS FIELD MOUNTED SIDE

NAF Z13713-3D (1) Z8F4304-3 HOSE (1) — IN — OUT — (79) (FWD)

(AC) NAF Z13706-4D (1) BRAKE "DE-66 - ROLLER (1) GOVERNING PRESSURE 10 PSI C.A.C. #JA 7360-1 (1) #4 PUMP - 1 (1)

PESCO "203 P OIL PUMP-12 SPLINE SIDE OUTLETS - END DISCHARGE CLOCKWISE.

ADEL A755-8-2-8 (8) AN 518-D8-8 (8) AC 365-D852 (8) 4 PLACES — Z8F1554 (1)

NAF Z13826-8D (2) NAF Z13850-8D (2) NAF Z13690-8D (4)

ADEL A755-8-2-8 (2) AN 518-D8-8 (2) AC 365-D852 (2) — (76) (FWD) — (77)

Z8F4679 - INSTALL'N. BRACKET - SPERRY LINES — ADEL A755-8-2-8 (2) AN 365-D8-8 (1) AC 365-D852 (2)

Z8F4502 (3) NAF Z13680-6D (6) — Z8F1554 (1)

NAF Z13826-8D (2) NAF Z13690-8D (4) NAF Z13850-8D (2)

ADEL A755-8-2-8 (8) AN 365-D8-8 (8) AC 365-D852 (8)

Z8F1554 (1)

ADEL A755-8-2-8 (2) AN 365-D8-8 (2) AC 365-D852 (2)

Z8F4502 (3) NAF Z13680-6D (6)

AN 913-2D — (AA)

AC 895-D82 (1) — OUT — SPEED CONTROL VALVES — Z8F1216-12.5 (1) — INLET — DRAIN — (37)

SPERRY "639946 (3) NAF Z13692-4D (3) — SPERRY "773196 (3) NAF Z13692-4D (3) — (AB) "1147260-1 C.A.C. "MOSINEE (6) — -START M3893-44-10 (3) ONLY M3893A-11 (3) — Z8F1216-10 HOSE (1) — SPERRY "68977 MANIFOLD BLOCK FOR INSTALL'N SEE Z8F5551 — NAF Z13692-4D (6) NAF Z13690-4D (6) — (32) — -0 ASSY & Z8-5ME"H-11 ONLY (34) — REST OF -2 ASSY & -87 ASSY. (33) — NAF Z13692-6D (2) NAF Z13690-6D (2) — Z8F5941 - INSTALL'N - SPERRY "642878 OIL FILTER. — -0 ASSY & Z8-5ME"J-11 ONLY (35) — REST OF -2 ASSY & -87 ASSY. (36) AC 895-D2 STREET 'L' (1) — NAF Z13733-6D (1) NAF Z13690-6D (2) -0 ASSY. — NAF Z13697-6D (1) NAF Z13690-6D (2) — (34) (35) — NAF Z13685-6D (1) NAF Z13690-6D (1) — NAF Z13692-6D (2) NAF Z13680-6D (2) — A.A.C. "58001 SUMP PUMP A.A.C. "32004 RESTRICTOR AC895-D91 (1) FOR INSTALL'N SEE Z8F5551 — (32)

Z8F1263-7 (1) AN 956-BB (2) AN 365-D8-8 (2) AN 515-D8-12 (2) AC 365-D852 (2) AC 366-D852 (2) — Z8F1264 (1) AN 365-D4-10 (4) AC 365-D852 (4) — Z8F1579 (4) AN526-D852-14 (5) AC 365-D852 (5) — Z8F1263 (1) AN 365-D8-8 (2) AN 515-D8-12 (2) AC 365-D852 (2) AC 366-D852 (2) — Z8F1263 (1) AC 366-D852 (2) AN 515-D8-12 (1) AC 365-D852 (2) — Z8F579 (2) AN 365-D8-8 (1) AN 515-D8-16 (2) AC 365-D852 (3) AN 956-BB (1) AN 960-8 (3) Q 808-A4C (1)

Z8F1242 (3) AN 365-D8-14 (9) AC 365-D852 (9) 5 PLACES — CROSS LINES AS THEY LEAVE VALVES. — ELEVATOR AILERON RUDDER

NAF Z13691-6D (1) NAF Z13690-6D (1) — (TOP) (24) (25) (26) (27) (28) (29) (30) (31) — (TOP) (45) (46) (47) (48) (49) (50) (51) — (TOP) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23)

Z8F1556 (1) — AN 931-10-20 (2) — NAF Z13691-6D (3) NAF Z13690-6D (2) — Z8F1579 (2) AN 526-D852-14 (4) AC 365-D852 (4)

(TOP) (72) (73) — Z8F1556 (1) — NAF Z13826-8D (2) NAF Z13850-8D (2) NAF Z13680-8D (4) — NAF Z13691-6D (6) NAF Z13690-6D (12)

(TOP) (64) (65) — ADEL A755-8-2-8 (2) AN 365-D8-8 (2) AC 365-D852 (2) — NAF Z13691-8D (6) NAF Z13690-8D (8)

Z8F1556 PANEL - (1) Z8F1614 VALVES (3) Z8F1035-33 ANGLE (1) PARKER #6 B NUTS (4) PARKER #4 B NUTS (8) AN 505-D8-6 SCREWS (8) AN 442 D6 G45504-D6 BOND 1 CORNER OF EACH VALVE & 1 END OF EACH BRACKET BY CLEANING CONTACTING SURFACES.

SURGE FROM 1/2 TO 3/8

Z8F1208 VALVE (1) PARKER #6 B NUTS (3) Q 810D-6-6D SPACER (4) AN 525-D8-40 SCREWS (4) AC 365-D832 NUTS (3) Z8F1271-3 SHAFT ASSY (1) Q 908-A6C (1) Q 908-A6-8 (1) ATTACH BRAD TO MOUNTING SCREW ON VALVE FOR INSTALL'N OF Z8F1208 VALVE. SEE Z8F5551 (B37)

TUBING B.M.

ALL TUBING 52 S.O. AL. ALLOY - SPEC. 44T32A

DASH NO.	SIZE	REQUIRED	DASH NO.	SIZE	REQUIRED
Z8F5514 - 01	1/4 OUT DIA.		Z8F5514 - 44	3/4 OUT DIA.	
-21			-44		
-22			-B - 88		-
-23			-B - 89	3/4 OUT DIA.	-
-24					
-25					
-26					
-27					
-28					
-29			Z8F5514 - 71	1/4 OUT DIA.	
-30			-72		
-31			-73		
-32	1/4 OUT DIA.		-74		
			-75		
			-76		
			-77		
Z8F5514 - 80	1/4 OUT DIA.		-78		
-81			-79		
-82			-80		
-83			-81		
-84			-82		
-85			-83		
-86			-84		
-87			-85		
-88			-86		-
-89		-			
-90					
-91					
-92					
-93					
-94					
-95					
-96					
-97					
-98					
-99					
-100					
-101					
-102					
-103					
-104					
-105					
-106					
-107					
-108					
-109					
-110					
-111					
-112					
-113					
-114	1/4 OUT DIA.				
		-0 -2 -87			-0 -2 -87

HOSE ASSY "HA 7360-1 MAY BE PURCHASED FROM FLEX-O-TUBE CO. DETROIT, MICH.

FOR MODEL PBY-5A, Z8-5AMC & Z8-5AMN GYRO-PILOT INSTALLNS. SEE Z8F5545-SHEET 2.

FOR MODEL PBY-5 & PBY-5B GYROPILOT INSTALLNS. SEE Z8F5595-SHEET 3.

SEE NOTE

PBY-5A

H 341

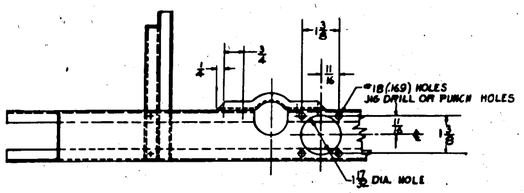
* SEE PAGE OF DWG.

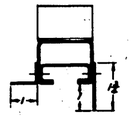
LET	ALTERATION	DATE	BY
-	ENGINE & EQUIPMENT -	4-20-43	
AA	ADDED AN 365-D8-8 (2) AN 515-D8-12 (2) AC 365-D852 (2) AC 366-D852 (2)	5-20-43	
AB	ADDED ANC-1 HA 7360-1 (6) 4 PLACES (1) ADDED AN 365-D8-8 (2) AC 365-D852 (2)	6-3-43	
AC	PACKER TAG-66-10 NUMBER 1 CHANGED PART NO. FROM 6 TO 10 C.A.C. "NO. - MAR-AE (1) ADDED PACKER "203 - PUMP - 12 SPL. SIDE AN 365-10 (1)	6-29-43	

| | | | | |

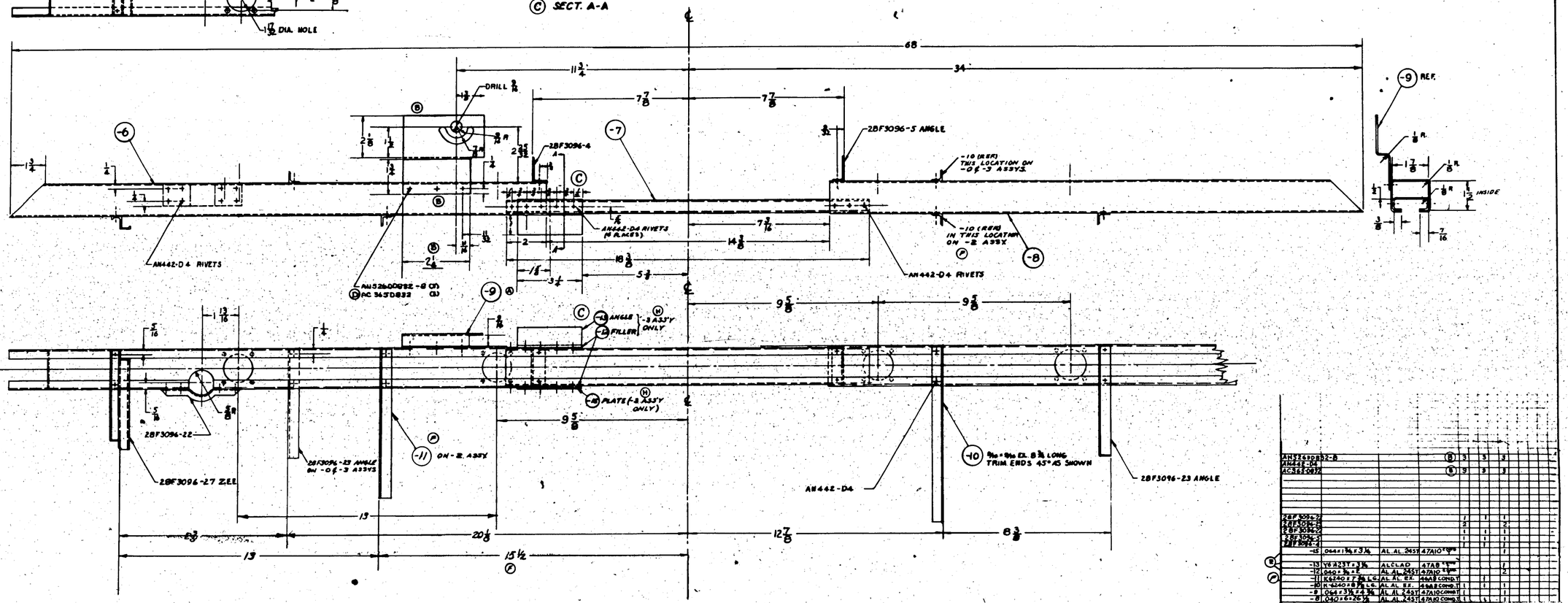
LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	REVISED -9 ANGLE, PART No. FROM 28F3096-24 WAS 45° WAS 90° BOTH SIDES OF ∠ A		
B	ADDED WAS CUTOUT 48 "L" FROM A, A/R WAS 3/16		
	ADDED -9 ANGLE - 3 RIVETS & REVISED AS REQUIRED, WAS -9 REQ'D		
C	ADDED -11 PLATE - 2 REQ'D		
	a. -9 & -11 FILLER ON PORT SIDE		
	b. REMOVED MATERIAL SHOWN ON PORT SIDE OF -9 ANGLE AND -11 PLATE AS REQUIRED TO BE INTERCHANGEABLE		
D	ADDED -9 ANGLE - 3 REQ'D, -11 PLATE - 2 REQ'D, -9 & -11 FILLER - 2 REQ'D		
E	CHANGED -9 ANGLE - 3 REQ'D FROM -3 ASSY ONLY TO -1 & -3 ASSY		
F	CHANGED -9 ANGLE - 1 ASSY FROM -3 ASSY ONLY TO -1 ASSY ONLY		
G	CHANGED -9 ANGLE - 1 ASSY WAS -1 & -3 ASSY		
H	IN MFR. RECORD 2.81.0036-22 FROM -2 A35X ON FACE CHGD -12, -13, & -15 TO READ -3 ASSY ONLY INSTEAD OF -2 ASSY ONLY. AIR NOT CHANGE		





© SECT. A-A



AN526D832-8				B	3	3	3		
AN442-D4									
AC365D832				B	3	3	3		
2BF3096-22					1	1	1		
2BF3096-23					2	2	2		
2BF3096-27					1	1	1		
2BF3096-4					1	1	1		
-15	.064 x 1 3/16 x 3 1/4	AL. AL. 2459	47A10 T3						
-13	Y6-223T-3 3/16	ALCLAD	47A8 T3				1		
-12	.040 x 3 1/2 x E	AL. AL. 2451	47A10 T3				2		
-11	K-6240-17 3/16 LG.	AL. AL. EX.	4948 COND. T						
-10	K-6240-8 3/16 LG.	AL. AL. EX.	4948 COND. T						
-9	.064 x 3 3/16 x 4 3/16	AL. AL. 2451	47A10 COND. T						
-8	.040 x 6 1/2 x 26	AL. AL. 2451	47A10 COND. T						
-7	.064 x 6 x 10 3/4	AL. AL. 2451	47A10 COND. T						
-6	.040 x 6 1/2 x 18	AL. AL. 2451	47A10 COND. T						

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

-15	PBY-5A	28F4478	
-13	PBY-5A	28F4478	
-3	28-BATHC	28F3532	1
-2	PBY3 *1	28F3533	1
-1	28-7-MC PBY	28F3534	1
-0	28-7-MC PBY	28F3532	1

ITEM NO.	MODEL	PART NO.	NO. REQ'D
REQUIREMENTS FOR AIRPLANE			
REPLACED			
REPLACED BY			

CSD# 76 SERIAL # 2280 U.S.C.G.

PART No.	STOCK	MATERIAL	SPEC	LH -9	RH -9	LH -11	RH -11
			PARTS LIST PER ASSY.	-3	-3	-3	-3
			QUANTITY PER ASSY.	1	1	2	2

NONE | Z-P-2DBL

NEXT ASSY | FINISH | QUANTITY

NEXT HIGHER ASSY | FINISH | QUANTITY

NAME BRACKETS-FUANS-PILOTS INSTRUMENT PANEL

CONSOLIDATED AIRCRAFT CORP. | SIZE D | DRAWING 28F5533 | REV B

H 342

PRINTED IN U.S.A.

H 343

VIEW A-A
SCALE 12"=1'0"

VIEW B
SCALE 6"=1'-0"
FOR -0 & -2 ASSY

VIEW C-C

DETAIL-13
SCALE 12"=1'0"

VIEW - C
(FOR -3 ASSY.)

NO.	ALTERATION	DATE	BY
A	-7 & -11 ASSY'S WAS -6 & -10	4-6-44	Mack
B	TRANS. -8 A.C. WAS TRANS. -6 & -7 A.C.	6-8-44	Mack
C	6" DIA. SPERRY OIL FILTER ADDED	8-14-44	Mack
D	-3 ASSY OMITTED -3 & -11 ADDED	8-14-44	Mack
E	ADDED "TRIM FLANGE"	8-28-44	Mack
F	CANCEL A/C CAGE NUT	9-5-44	Mack
G	WT. CHG. NEG.	9-14-44	WILLS
H	WT. CHG. NEG.	9-27-44	WILLS
J	ADDED "(SEE NOTE)" AT SOME	3-30-45	MACK

E.O. 85799
E.O. 87818-A
E.O. AMMD 28-1248
E.O. A77769
E.O. A93688-A
E.O. A78880

FINISH CODE	
Z	ANODIC TREATMENT
B	ENAMEL
GP	PRIMER
C	CADMIUM PLATE

PART No.	STOCK	MATERIAL	SPEC	-0	-2	-3	-4
				REQ.	REQ.	REQ.	REQ.
PARTS LIST PER ASSY				-0	-2	-3	-4

NONE | Z-P-26P

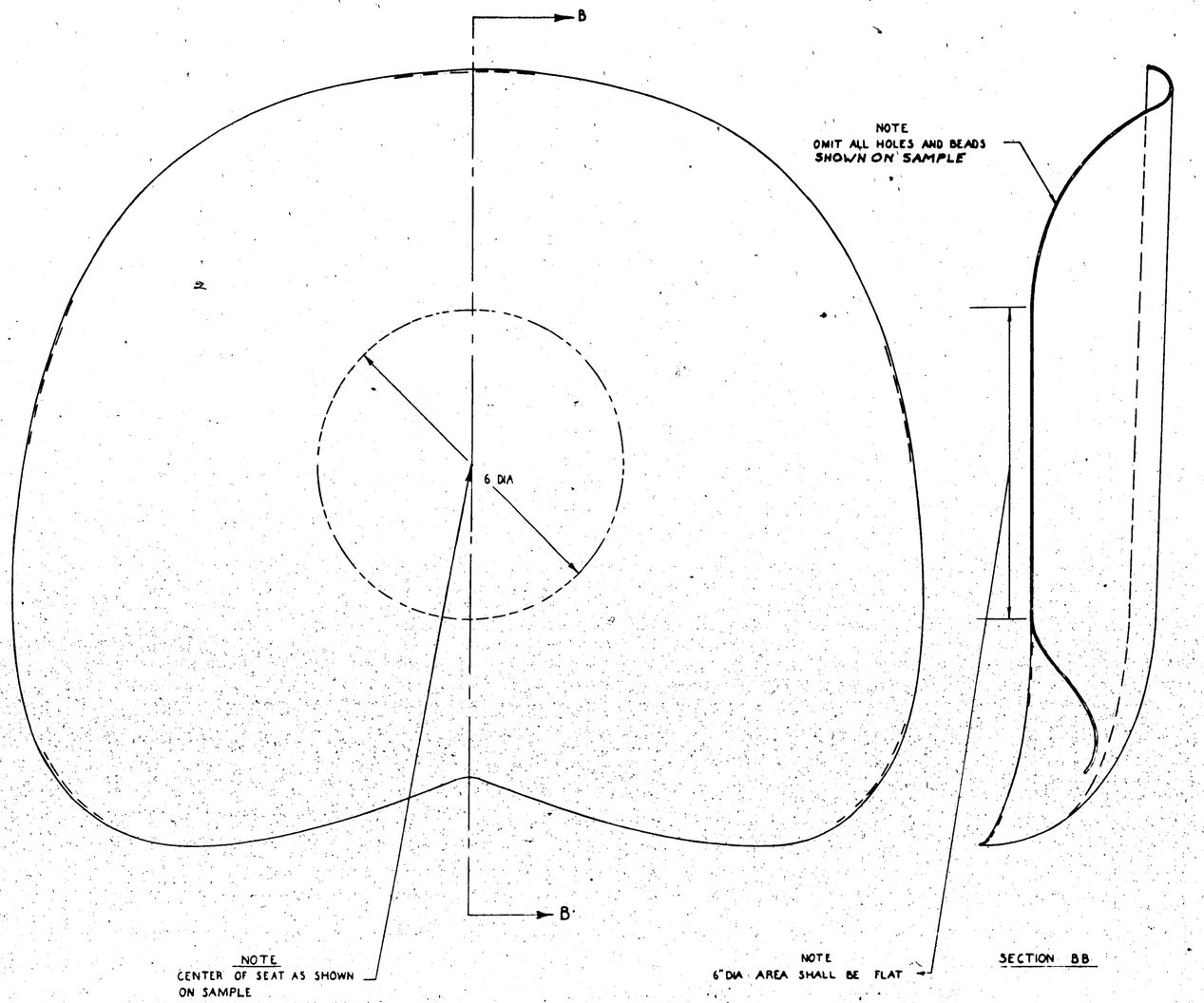
NAME INSTALLATION-FURNS-GYRO PILOT EQUIP BRKTS-BLK'HDS

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

28F5551

28F5551

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



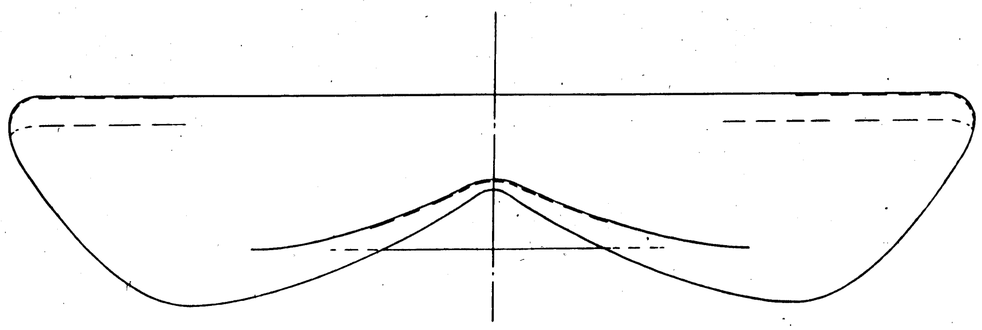
NOTE
OMIT ALL HOLES AND BEADS SHOWN ON SAMPLE

NOTE
CENTER OF SEAT AS SHOWN ON SAMPLE

NOTE
6" DIA AREA SHALL BE FLAT

SECTION BB

NOTE
DROP HAMMER PART LIKE SAMPLE EXCEPT AS SHOWN. CONTACT LIAISON ENGINEERING FOR SAMPLE & INSTRUCTIONS BEFORE MAKING PATTERN FOR DROP HAMMER DIES.



FINISH CODE	
A	ANODIC TREATMENT
B AND C	P-22 PRIMER ALUMINIZED PRIMER CADMIUM PLATE

H 344

PART NO.	STOCK	MATERIAL	SPEC.	PARTS LIST PER ASSY. -0	-1	-2	-3	-4	-5
				REQ.	REQ.	REQ.	REQ.	REQ.	REQ.

A-6		Parker	
NAVY SR-30 Comp. T.	2-P-2	A-10-60	SPEC. N
HEAT TREAT	FINISH		

NAME: SEAT - BOMBER & WAIST - GUNNER

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE: J | CODE: 28F5623

EA 25686

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	Q4301-AD6 to Q4303-AD6 & Q4301-AD6 to Q4303-AD6	8-1-41	[illegible]				

4⅛ RIVET CIRCLE DIA.

INSTALL AC225-5-4 PLACES ON BOTTOM OF SEAT, LOCATE FROM 28F2084 SEAT PAD

DRILL THRU #30 (.1285) & COUNTERSINK FOR Q4303-AD6 — 8 PLACES LOCATE HOLES FROM 28F5625 Ⓐ

DRILL #10 (.1935) & COUNTERSINK FOR Q4303-AD6 8 PLACES

7 5/16 APPROX.

4⅛

28F2084 - SEAT PAD

28F5625 REF

28F5624 REF

28F5623 REF

28F5625

28F5625

28F5623

28F5624

Ⓐ Q4303 AD6
Q4301 AD6
AC225-4

PART NO	STOCK	MATERIAL	SPEC	-0 REQ	-2 REQ	-4 REQ	-6 REQ
28F5626				1	1	1	1
28F5625				1	1	1	1
28F5624				1	1	1	1
28F5623				1	1	1	1

PARTS LIST PER ASSY.

MODEL	PARTS ASSY. NO.
28-5	28F5626
28-5V	28F5626-C
28-5AC	28F5626-E
28-5MC	28F5626-F
28-5MC	28F5626-J

REQUIREMENTS PER AIRPLANE
REPLACED
REPLACED BY

Scale 12"-1'-0"

A 2
NAVY
HEAT TREAT

MATERIAL 28F5626
FINISH
DRAWN
TRACED
CHECKED
APPROVED
DATE
ORDER

NAME SEAT-ASS'Y-BOMBER & WAIST-GUNNER

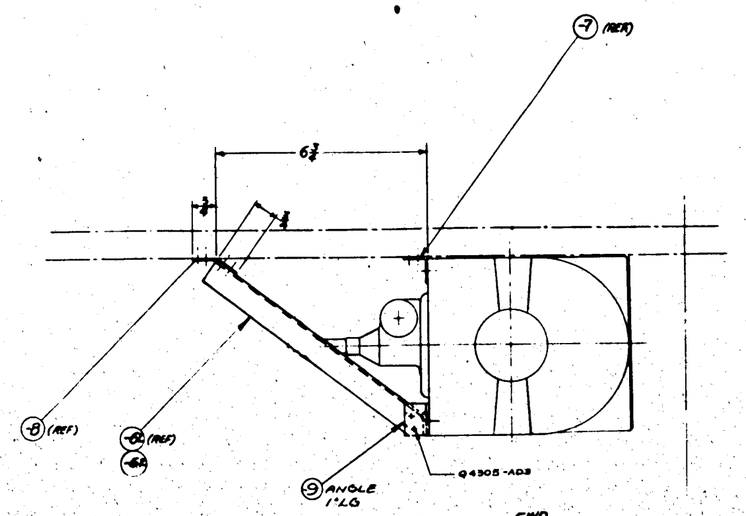
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

GROUP J

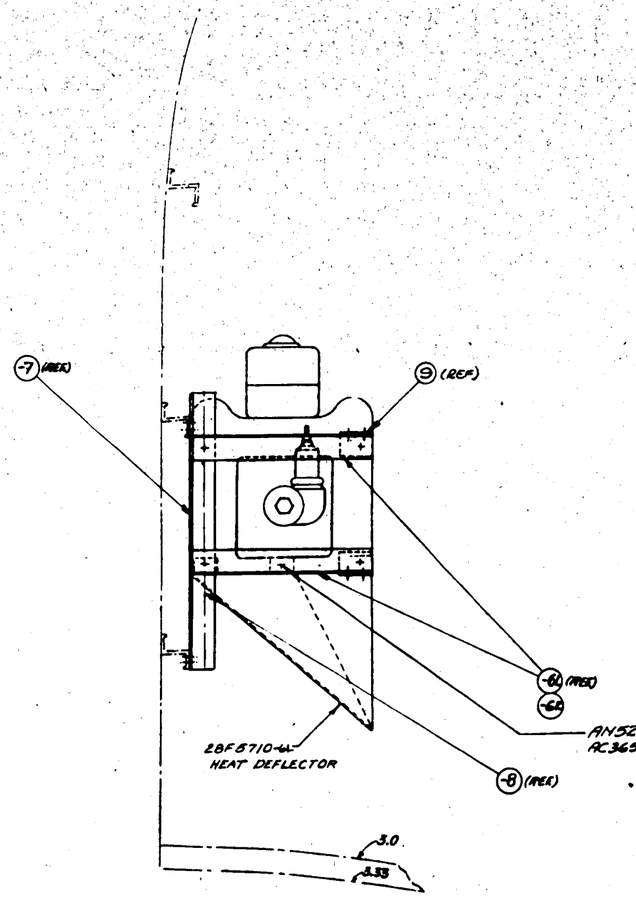
28F5626

H 345

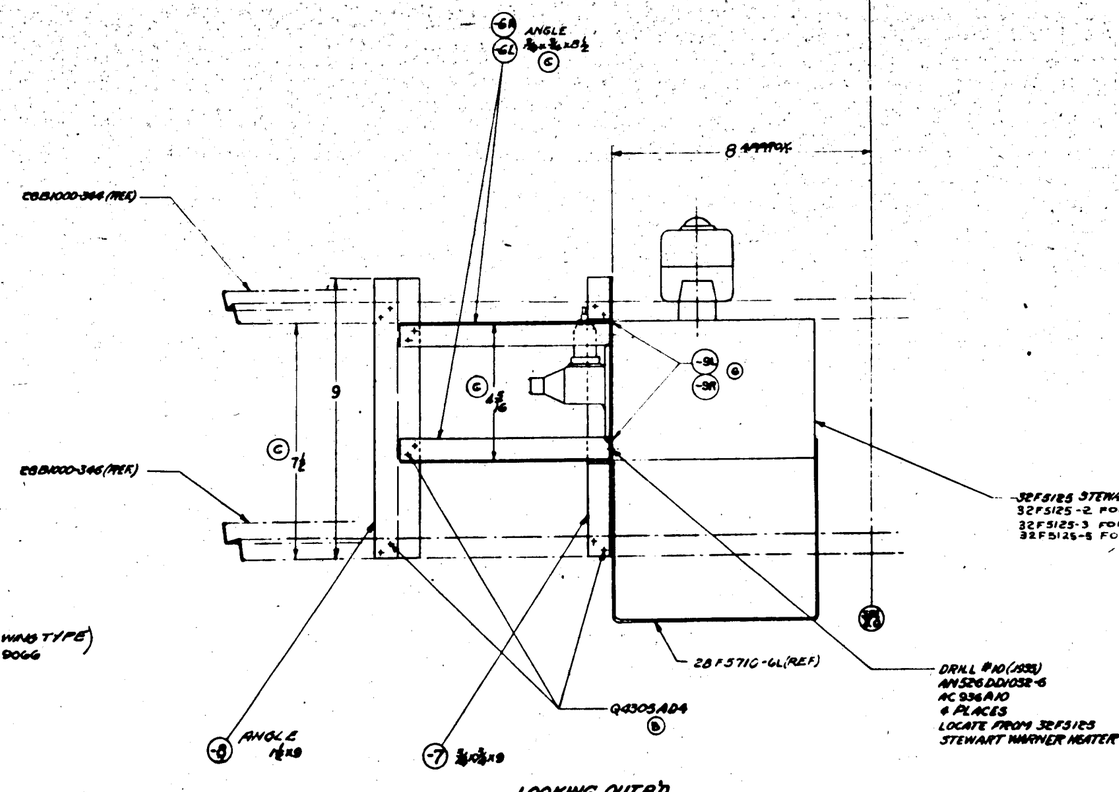
LET	ALTERATION	DATE	BY
A	RELEASED AFTER PRELIMINARY RELEASE	1-24-45	
	CANCELLED WAS REF 5710	"	
B	CHGD DWG'S FROM 6 HOLES TO 4 HOLES	2-9-45	
C	MOVED FACE OF DWG. 1/4" TO LEFT ON -6 FITTING. CHGD'S ON FACE OF DWG. LENGTH OF -6 FITTING WAS 6 3/4" NOW 6 1/2". IN DIM. LENGTH OF -6 FITTING WAS 2 3/4". ADDED DIM. 7 1/2" (REF) IN DIM. REF 5710-6L WAS 8 APPX.	"	
D	-L NO WT. CHG.	2-16-45	
E	CREATED -2 ASS'Y NO WT CHG	3-9-45	
F	CREATED -3 ASS'Y NO WT CHG	3-17-45	
G	CHGD -3 TO -3L & -3R, NO WT CHG	3-24-45	
H	CREATED -4 ASS'Y NO WT CHG	4-2-45	
J	IN B/M FOR -6L & -6R REPLACED "MS490 X 3/8" AL ALLOY 6AB-T" WITH "Y-2-A27 RT X 3/8" FOR -7. REPLACED "MS490 X 3/8" AL ALLOY 6AB-T" WITH "Y-2-A27 RT X 3/8". 1 PC -9L & -9R REPLACED "MS490 X 1/8" AL ALLOY 6AB-T" WITH 1 PC Y-2-A27 RT X 1/8" WT CHG NIL	4-12-45	
K	IN B/M FOR -6 1/2 R, -7, -9 1/2 R MADE "Y-2-A27 RT" WITH "NOTE K" MATL. PARTS & DIMS. ADDED NOTE K. NO WT CHG.	10-21-45	



PLAN VIEW



LOOKING FWD
L.H. SIDE



LOOKING OUTBD
L.H. SIDE

NOTES-

K 1. MAT'L. FOR -6 1/2 R, -7, -9 1/2 R MAY BE-
(A) Y-2-A27 RT, OR
(B) K5401, AL. AL. EXTR., SPEC. QQ-A-354-T.

H 346

32F5125-2	NOTED	1/8	NOTED	NOTED									
32F5125-3	NOTED	1/8	NOTED	NOTED									
-9L	NOTED	1/8	NOTED	NOTED									
-8	CUT 1/8	3/4	ALCAD	24AB-T									

28F5697-10 SUB ASS'Y

AN526DD832-6
AC3650D832 (SCOVILL MFG TYPE) (Mc B 9066)

32F5125-2 S.W. HEATER UNIT
32F5125-3 S.W. HEATER UNIT
32F5125-5 S.W. HEATER UNIT
32F5125 S.W. HEATER UNIT

28F5710-6L

-7 NOTED 1/8 NOTED NOTED

28F5697-10 SUB ASS'Y

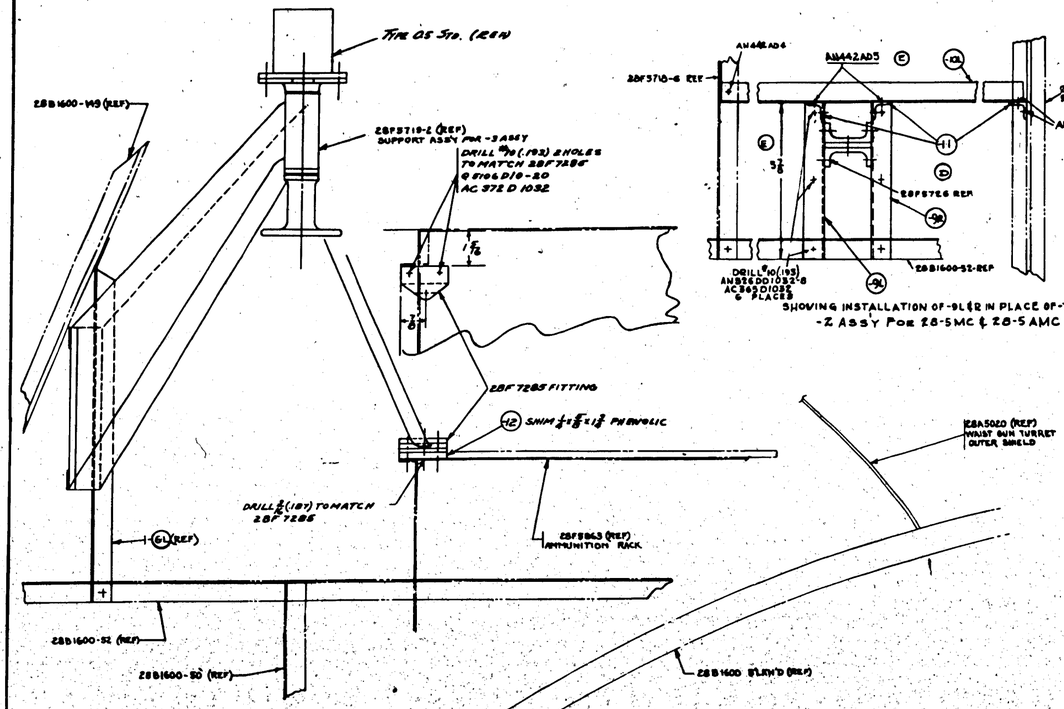
-4	PBY-5A	28F6169	1
-3	PBY-5B	28F7269	1
-2	PBY-5A	28F6169	1
-L	PBY-5	28F6341	1
-10	AN526	28F6038	1
-9	AN526	28F5741	1
-8	AN526	28F5741	1
-7	AN526	28F5741	1
-6	AN526	28F5741	1
-5	AN526	28F5741	1
-4	AN526	28F5741	1
-3	AN526	28F5741	1
-2	AN526	28F5741	1
-1	AN526	28F5741	1
-10	AN526	28F5741	1
-9	AN526	28F5741	1
-8	AN526	28F5741	1
-7	AN526	28F5741	1
-6	AN526	28F5741	1
-5	AN526	28F5741	1
-4	AN526	28F5741	1
-3	AN526	28F5741	1
-2	AN526	28F5741	1
-1	AN526	28F5741	1

CONT 88476-3 (16)
CONTS 70496-77713
88476-1 TO 24
C-91814
(1 REQ'D)

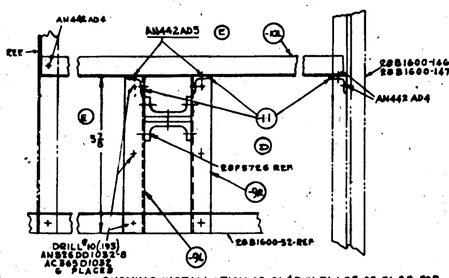
PART No.	STOCK	MATERIAL	SPEC	LAST SER. No.	LAST SER. No.	LAST SER. No.	LAST SER. No.	LAST SER. No.
	PARTS LIST FOR ASSY.			-10	-5	-3	-4	

A.C.					
PLANT NAME					
HEAT TREAT	FINISH				
NAME INSTALL. - FURNS. - HEATING SYS. NAVIGATOR HEATER					
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.				SIZE J	28F5697

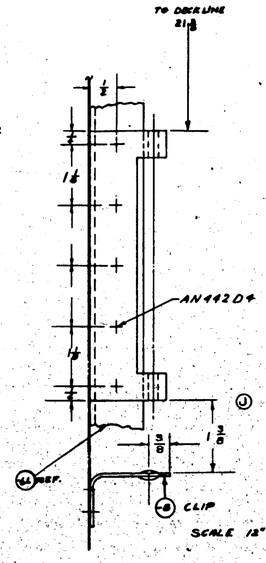
28F5697 R



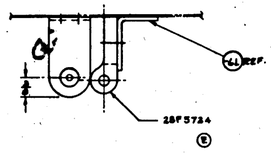
VIEW SHOWING INSTALLATION OF SUPPORT ASSY FOR -3 ASSY FOR PBY-5B (H)

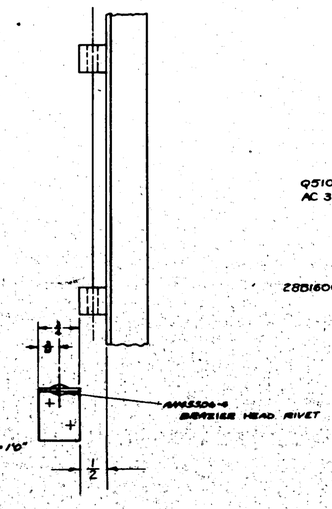


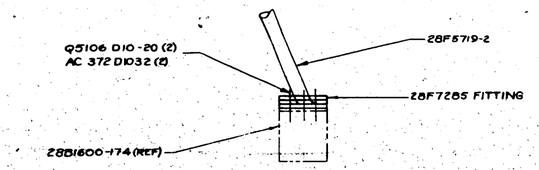
SHOWING INSTALLATION OF -9L & R IN PLACE OF -7L & R FOR -2 ASSY FOR 28-5MC & 28-5AMC



VIEW A-A

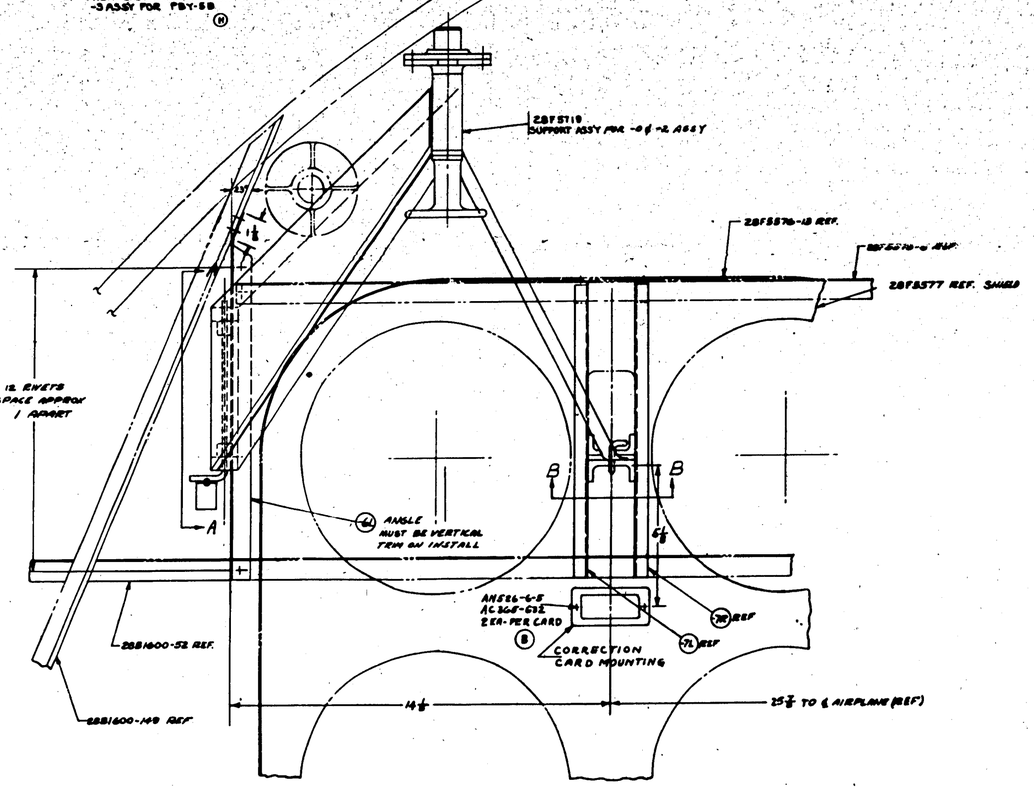






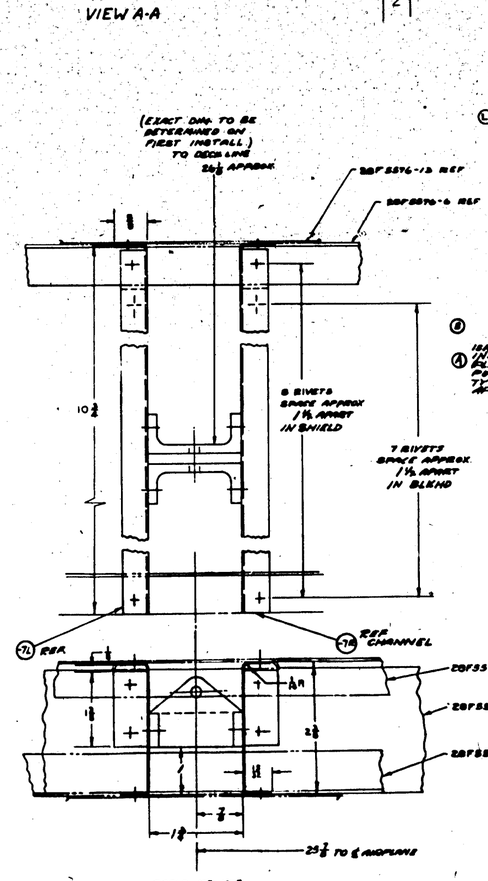
-4 ASSEMBLY

SAME AS -3 ASSY EXCEPT AS SHOWN. 28F7285 FITTING MOUNTS ON CLIP ON 28B1600 INSTEAD OF 28F5863 AMMUN. RACK (K)



VIEW LOOKING FWD PORT SIDE

NOTE
ALL RIVETS TO BE AN442-D4 UNLESS OTHERWISE NOTED.



SCALE 12"=1'0"
SECTION B-B

MATERIAL NOTE-
(L) MATL. FOR -6L & -6R MAY BE-
(A) Y-G-A17 T X 14, OR
(B) K 1888 X 14, AL. AL. EXTR., SPEC. QQ-A-354-T.

(A) TWO MOLDERS FURNISHED WITH THE TWO COMPASSES USED FOR INSTALLATION. THREE EITCO MOLDER BLOCKS WITH CARDS TO FIT, MUST BE PURCHASED. MOLDERS TO BE OF SAME TYPE AS FURNISHED WITH PROVIFIX APERIODIC COMPASS - TYPE 1869-1

FINISH-ANODIZE
P-27 PRIMER (E)
ALUMINIZED PRIMER

NAME	INSTALL - FURN - GE COMPASS SUPPORT - WAIST GUNNER'S	SIZE	J	28F5718
CONSOLIDATED AIRCRAFT CORP.		SCALE		SHEET

H 347

MKT	AN NUMBER	QUOTA	QTY
	(10 EA. REQ.) WAS (6 REQ.)		
	TIE BAR AN526DD832-6		
	(AS REQ.) (2) WAS (8 REQ. LH)		
	AC365D832K (3) REQ. L.H.) WAS		
	(6 REQ. R.H.) WAS (2 REQ.		
	TIE BAR AN526DD832-6		
	(6 REQ.) WAS (3 REQ.)		
	CUTTER PIN AN470B6-6 (6 REQ.) WAS		
	ANP470-B10-6 (3 REQ.)		
	AC365D832K (3 REQ.) WAS (2 REQ.		
	ANP470-B10-6 (3 REQ.) WAS		
	AC365D832K (3 REQ.) WAS (2 REQ.		
K	TIE BAR -13 & -14 (LH) (FACE		
	WAS (7 REQ.) FACE 28F2247-28		
	(1 REQ.) WAS (3 REQ.) NO WT. CHG.		
L	OUTFACE 2 IN. 3/16 - 28 WAS -20		
	WAS -18 - NO WAS -16; ADDED NOTE:		
	"TRIM ---- DIMENSION" WITH CHG.		

MKT	AN NUMBER	QUOTA	QTY
A	(10 EA. REQ.) WAS (6 REQ.		
	TIE BAR AN526DD832-6		
	(AS REQ.) (2) WAS (8 REQ. LH)		
	AC365D832K (3) REQ. L.H.) WAS		
	(6 REQ. R.H.) WAS (2 REQ.		
B	TIE BAR AN526DD832-6		
	(6 REQ.) WAS (3 REQ.)		
	CUTTER PIN AN470B6-6 (6 REQ.) WAS		
	ANP470-B10-6 (3 REQ.)		
	AC365D832K (3 REQ.) WAS (2 REQ.		
	ANP470-B10-6 (3 REQ.) WAS		
C	AC365D832K (3 REQ.) WAS (2 REQ.		
D	TIE BAR -13 & -14 (LH) (FACE		
	WAS (7 REQ.) FACE 28F2247-28		
	(1 REQ.) WAS (3 REQ.) NO WT. CHG.		
E	OUTFACE 2 IN. 3/16 - 28 WAS -20		
	WAS -18 - NO WAS -16; ADDED NOTE:		
	"TRIM ---- DIMENSION" WITH CHG.		

STA. 4.50

STA. 4.25

AFT. END TO STA. 4.50, AC365D832 (E) AN526DD832-6 (8 EA. REQ.)

(E) -19 (REF.) AN526DD832-6 & AN365D832 (2 EA. REQ.) 4 EA. PER SHIP

28F4047-2 (D)

28F4047-3 (D)

(L) NOTE TRIM OUTSTANDING LEG OF -20 TO 3/16 DIMENSION

-20 REF

VIEW B-B
FULL SIZE

NOTE: -13 & -14 SAME AS 28F2247 -23 & -28 BUT OPPOSITE HAND

SEE 28F2247

SEE 28F2247

28F3067 DOOR OPEN

DECK LINE

FORWARD

AN-442-AD3

28F3067 DOOR ASSY.

28F2247-18 (REF)

VIEW LOOKING FORWARD

SECTION A-A

NOTE:
FOR FURTHER DIMENSIONS AND DETAILS SEE 28F2247 & 28F2248
-7 THE SAME AS 28F2247-25 EXCEPT AS NOTED IN SECTION A-A AND DET'S.
-15 THE SAME AS 28F2247-16 -EXCEPT FOR CUT OUTS
USE AN442-B4 UNLESS OTHERWISE NOTED
STITCH RIVETS ON ASSY. - AN442-D3
OPEN ANGLES OF -10 AND -11 TO FIT INSTALLATION

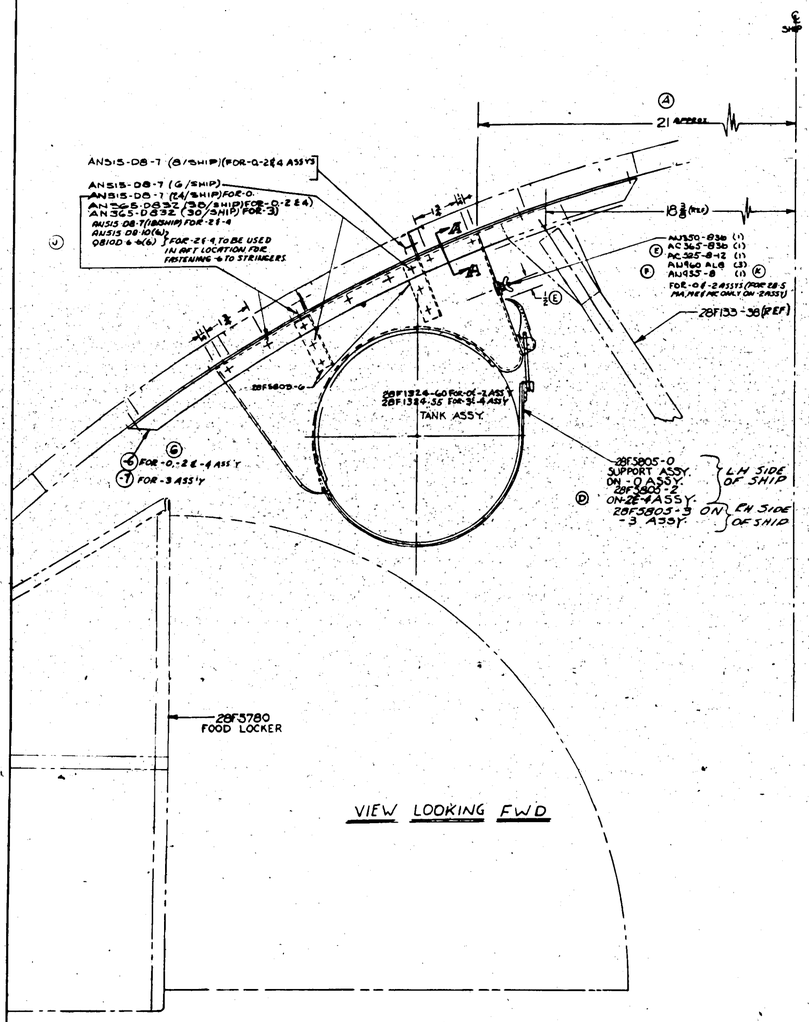
H 348

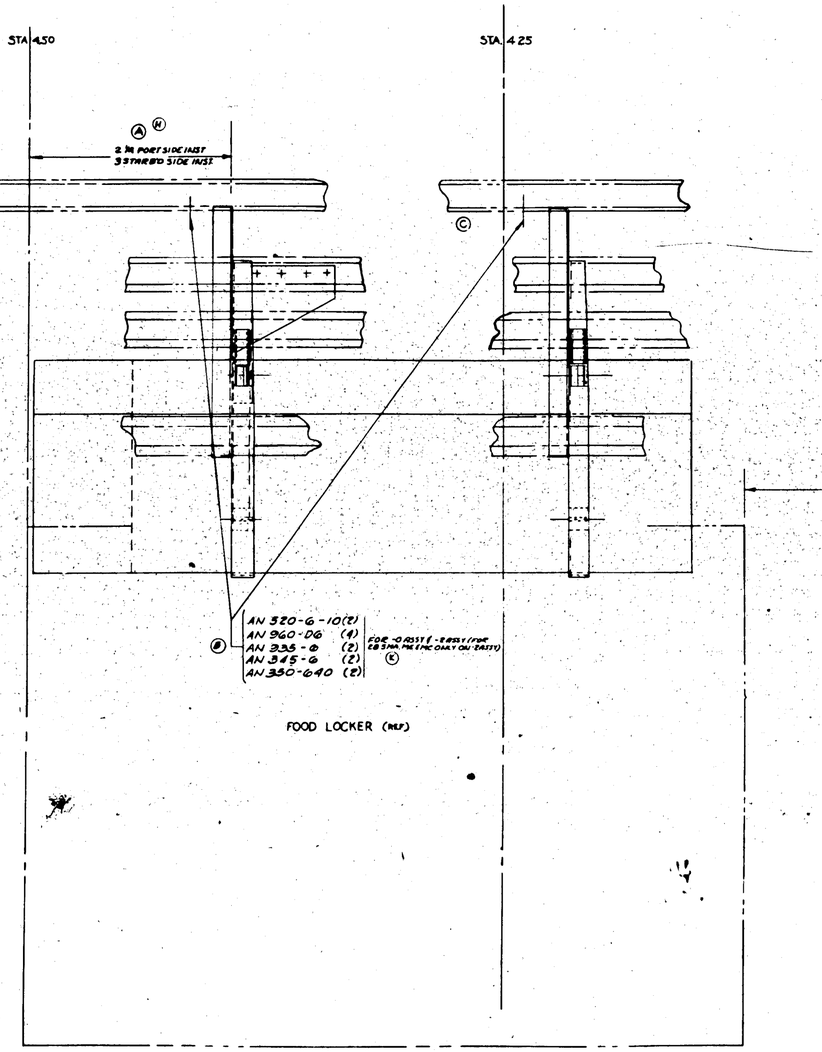
ASSY - FOOD LOCKER - FURN
MESS'S COMPT L.H.

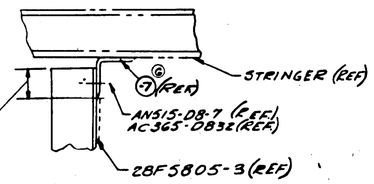
28F5780

LET	ALTERATION	DATE	BY
B	(B) WAS 7.30 ADDED APPROX 78 IN DIA	11-1-40	[illegible]
	ADDED AN320-8, H10, AN960-D8(4), AN935-8(2), AN365-428(2), AN345-4(2), AN310-640(2)	12-26-40	[illegible]
C	ATTACH -6 TO 28F3763-2 REPLACE [illegible]	"	"
	ANGLE ADJ WITH AN515-D8-7 & AN365D832 ADD IN BOM	4-14-41	THOMAS
D	ADDED -2-3 (-4 43373 & (FOR 5.28-5 MFG INC. MIA REQMTS & SPEC A-A		
E	ADDED AN576-4-60-10(2), AN350-640(2), AN345-4(2), AN931-8(2)		
	(2)702-116(4), 5/8 DIM	5-17-41	WALTERS
F	CHANGED BOM 2 DWGS.		
	AN350-836(2) WAS AN350-640(2)		
	AC365-836(2) WAS AN576-4-60(2)		
	AC525-836(2) & (3) WAS AN345-4-60(3)		
	AN960-A16(6) WAS G7102-A6(4)		
	AN935-A6(3) WAS AN935-8(2)	7-18-41	[illegible]
G	ADDED TO FACE OF DWG 28F1324	9-16-41	[illegible]
	-88 FOR 2.8 & 4.0 SHIPS ONLY INSTEAD		
	28F5803-9 WITH 28F5804-4		
	(28F5803-9(1) FOR -2 ASSY ADDED		
	IN BOM: WITH ANGLE AN515-D8-7		
	ONLY (2 REQ) IN 28F5803-9		
	IN -2 ASSY ANGLE -D8-7 2 REQ.		
	WAS 28 & ANGLE -D8-8 2 REQ.		
	WAS NS. -7 REPLACED -6		
	FOR -2 ASSY		
H	ADD DIM'S & NOTES "PORT SIDE" & "STARBD" (-6 "PS" REVISED 28F5803-9 AND 28F5804-4)		

LET	ALTERATION	DATE	BY
	(28F5803-9(2) AN345-4(2) AN350-640(2)		
	ANGLE ADJ WITH AN515-D8-7 & AN365-D832 ADD IN BOM		
	ADDED -2-3 (-4 43373 & (FOR 5.28-5 MFG INC. MIA REQMTS & SPEC A-A		
	ADDED AN576-4-60-10(2), AN350-640(2), AN345-4(2), AN931-8(2)		
	(2)702-116(4), 5/8 DIM	5-17-41	WALTERS
	CHANGED BOM 2 DWGS.		
	AN350-836(2) WAS AN350-640(2)		
	AC365-836(2) WAS AN576-4-60(2)		
	AC525-836(2) & (3) WAS AN345-4-60(3)		
	AN960-A16(6) WAS G7102-A6(4)		
	AN935-A6(3) WAS AN935-8(2)	7-18-41	[illegible]
G	ADDED TO FACE OF DWG 28F1324	9-16-41	[illegible]
	-88 FOR 2.8 & 4.0 SHIPS ONLY INSTEAD		
	28F5803-9 WITH 28F5804-4		
	(28F5803-9(1) FOR -2 ASSY ADDED		
	IN BOM: WITH ANGLE AN515-D8-7		
	ONLY (2 REQ) IN 28F5803-9		
	IN -2 ASSY ANGLE -D8-7 2 REQ.		
	WAS 28 & ANGLE -D8-8 2 REQ.		
	WAS NS. -7 REPLACED -6		
	FOR -2 ASSY		
H	ADD DIM'S & NOTES "PORT SIDE" & "STARBD" (-6 "PS" REVISED 28F5803-9 AND 28F5804-4)		







SECTION A-A
SCALE 12" = 1'0"
(ON -3 ASS'Y)

3.- MAT'L FOR -6 MAY BE-
(A) Y-2-A28T X 26, OR
(B) K5401 X 26, AL AL EXTR., SPEC. QQ-A-354-T.
4. MAT'L. FOR -7 MAY BE-
(A) Y-2-A28T X 17 1/2, OR
(B) K5401 X 17 1/4, AL AL EXTR., SPEC. QQ-A-354-T.

ALL BUT LAST 36 -0 28-5MA,ME 28-5ME
C 91876 (C 70496 98 167 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25 -26 -27 -28 -29 -30 -31 -32 -33 -34 -35 -36
-2 EFFECTIVE ON LAST 36 OF 28-5ME & MA & ALL MC'S & FUTURES

NOTE:
1. -3 ASSY. ASSEMBLES ON RH SIDE OF SHIP USING SAME LOCATING DIMS. AS FOR -4 ASSY ON LH.
2. -4 ASSY IDENTICAL TO -2 ASSY EXCEPTING USE 28F1324-55 TANK.

PART NO.	STOCK	MATERIAL	SPEC	REQ -0	REQ -2	REQ -3	REQ -4
28F5803-4					1		
28F5804-3					1		
28F5803-2					1		
28F5805-0				1			
28F1324-54							1
28F1324-55						1	
	NOTED	NOTED	NOTED				
	NOTED	NOTED	NOTED				

PARTS LIST FOR ASSY

| | | | | | | |

LET.	ALTERATION	DATE	BY
P	REMOVED NOTE "PACKAGE QUANT. - ROLL ON BELTS" ADDED NOTE "UNITED LOOSE - TYPICAL" ASSY'S" ADDED M/N "200 SNAP HOOK" & "REC MISC."		
Q	CREATED -9 ASSY (1). ADDED M/N "MISC & HARDWARE" TO MTL CHG.	2-23-61	MILLS
R	M/N 48-3A (CAC DWG "48 SERIES") & M/N 51-B (CAC DWG 51) & M/N 48-4A (CAC DWG 48) TO MTL CHG.	2-23-61	MILLS
S	LOWERED -4 ASSY. PER 28F5044	2-23-61	MILLS
T	M/N CHG. NOS.	2-23-61	MILLS
U	ADDED M/N "SNAP HOOK" & "RING" TO MTL CHG.	2-23-61	MILLS
V	M/N 2 & 3 CHGD "C" TO "B" AT ASSY'S -23 & -24 ADDED "SEE NOTE" ON FIGS. REVISED CALLOUT ACROSS & WITH NEW CHG. TO 28F5035 "B" PER MTL CHG 10-3-61	10-3-61	ROHE

LET.	ALTERATION	DATE	BY
W	CANCELLED 28P1178 & 28P1179 ADDED 28P1178-6 & -7 ASS'S	12-14-61	MILLS
X	Q818-D6-13 (4.750) REPLACED Q818-D6-16 UN DWG 48B1-96 (5.10 O/A)	12-14-61	MILLS
Y	MILLS SAFETY BELTS WERE (NOT) ADDED NOTE "OPEN STEEL ... ETC. REFERENCED TO/ CREATING -7 & -8 SUB ASS'Y ADDED NOTE "FOR POSITIVE CRIMPING"	1-8-62	MILLS
Z	CREATED -5 ASS'Y (2) ADDED M/N "SNAP HOOK" TO MTL CHG.	2-20-62	MILLS
A	M/N 48-3A (CAC DWG "48 SERIES") CHANGED TO FOR -3 & -4 ASS'Y'S M/N 51-B (CAC DWG 51) CHANGED TO FOR -5 & -6 ASS'Y'S ADDED NOTE "MATERIAL TO BE CUT FROM STOCK AS REQUIRED"	2-20-62	MILLS
B	REMOVED AN960D10 & AN3-D10A & AC365D1032 ACCESSORIES	3-7-62	MILLS
C	ADDED -2 REF'L TO FIGS 27 & 28	4-12-62	MILLS
D	ADDED 2" DIA TO Ø800 M/S SNAP HOOK K-6-9-10 SUB ASS'Y'S -3 & -4	5-7-62	MILLS
E	ADDED "CUST FURN" TO MILLS SAFETY BELTS IN -7 & -8 SUB ASS'Y	5-7-62	MILLS
F	REMOVED 30.2mm FROM SEW (AT -7 & -8 SUB ASS'Y'S)	5-7-62	MILLS
G	CHG. M/N SUB. NO. 28-4 TO 28-5 IN PARTS LIST PER 28P1	5-7-62	MILLS
H	ADDED NOTE "PURCH. SHAPE" PER 28P1 TO CHG.	5-7-62	MILLS
I	REMOVED -6 & REQ FROM BOM & PARTS LIST	5-7-62	MILLS
J	MS24-20/032-12 AN3-6A/C32-100 N.32-16 ARMIT CHG.	6-14-62	MILLS

E.O. 28864

E.O. A62318

E.O. A64015

E.O. A62442

E.O. 28F5035

E.O. 30891

E.O. 37153

E.O. 30932

E.O. 36467

32-21 PBY-5A 28-4 THR

E.O. 30934 AM-1A, 1A-1B

Q7008-A17-064 (2)
AN 310-4 (1)
AN 320-E-2 (1)

28F5035-7 REF.

AN960D10 (2)
AN3-D10A (2) AC365D1032 (2) SPACED EQUALLY

Q818-06-13 AN 364-1032-12 AN 364-1032

OPEN STEEL GROMMETS IN BELT, ON MANDRILL IF NECESSARY, ON INSTALL. OF Q818-D6-13 (REF)

BUNK (REF)

B.F. 5.5 (REF)

MILLS SAFETY BELTS

N&J #200 SNAP (OR EQUIV.)(4) LOWER END OF -10 ASSY, OUTBD. END OF UPPER BUNK BELT & BOTH ENDS OF LOWER BUNK BELT.

BELT M264-T6-GCB (REF) M264-48-GCB (REF)

BUCKLE & PT. (TOMED IN BELT) REMOVE FROM BELT & ADD TO LOWER END OF -10 ASSY.

28F5858-2 (-10 ASS'Y)

BUNK (REF)

M-264 OR EQUIV. STRAP ASS'Y WITH "C" END FOR -9 SUB ASS'Y ONLY WM-48-3A (CAC BELT #18) (2) AN ASSOC. BENDIX, N.J. FOR -8 ASSY. M264-48 GCB FOR -11 SUB-ASSY ONLY

B.F. 5.5 (REF)

STRAP IN STOWED POSITION

Q1601-23 OR K225-9 Q7008-M11-063 AN 935-8 AN 340-8 } LOCATE TO SUIT STRAP 2 PLACES

AN3-6A (2) Q7007-A13-040(4) AC 365-1032(2) LOCATE DIRECTLY BELOW MOD EDGE OF BUNK

PORT SIDE LOOKING FWD

MILLS SAFETY BELT ©

28F5858-0 (SUB ASS'Y)

STITCH LOOP AROUND RING IN 28F5858-0 (REF)

STITCH TOGETHER (-12 ASS'Y)

STRAP ASS'Y

M264-T6-GCB (-10 SUB-ASSY ONLY) M264-48-GCB (-11 & -12 SUB-ASSYS ONLY)

WM48-T6 (CAC BELT #18) (2) AN ASSOC. BENDIX, N.J. - FOR -8 ASSY.

Q5762-K16-27 STRAP
Q5762-K16-30 STRAP (-12 SUB ASS'Y)

TURN EDGE OF STRAP 2½" (ON -8 ASS'Y TYPICAL 5 PLACES)

N&J #200 STRAP FOR 2" BELT

28F5838-2

28F4061 STRAP ASS'Y CUT LENGTH TO SUIT

28F4061-2

AN3-6A (2) Q7007-A13-040(4) AC 365-1032(2) LOCATE DIRECTLY BELOW MOD EDGE OF BUNK

28F5035-8

AN442-D5 (2)

NOTE: -7 SUB ASS'Y. FOR LOWER BUNK
-8 SUB ASS'Y. FOR UPPER BUNK
-9 SUB ASS'Y. FOR LOWER BUNK
-10 SUB ASS'Y FOR UPPER BUNK
-11 SUB ASS'Y. FOR UPPER BUNK
-12 SUB ASS'Y FOR LOWER BUNK

PARTS LIST PER ASSY	-0	-5	-3	-4	-9
N&J SNAP #200 OR EQUAL (CAC BELT #18)	2				
M264-T6-GCB (CAC BELT #16)	-	2			
28F5035-7	-	1			
-12 SUB ASS'Y					
N&J SNAP #200 OR EQUAL (CAC BELT #16)		2			
M264-48-GCB (CAC BELT #16)		-	2		
-11 SUB ASS'Y			1		
N&J SNAP #200 OR EQUAL (CAC BELT #16)				4	4
M264-T6-GCB				-	1
-10 SUB ASS'Y					
N&J SNAP #200 OR EQUAL (CAC BELT #16)				-	2
M-264				-	1
-9 SUB ASS'Y					
N&J SNAP #200 OR EQUAL	2	2	2	2	2
28F5858-0	1	1	1	1	1
28F5063 (2)	1	1	1	1	1
28F5061-2	1	1	1	1	1
28F5061-1 STRAP ASS'Y	1	1	1	1	1
MILLS SAFETY BELT -8 SUB ASS'Y	CUST. FURN.				
AC365-1032	2	2	2	2	2
AC365-1032-12	2	2	2	2	2
MS24-20/032-12	2	2	2	2	2
28F5035-8	2	2	2	2	2
28F4061-2	2	2	2	2	2
AN3-6A	2	2	2	2	2
Q7007-A13-040	2	2	2	2	2
AC365-1032	2	2	2	2	2
MILLS SAFETY BELT -7 SUB ASS'Y	CUST. FURN.				
Q1601-23 (SEE NOTE)	4	4	2	2	2
M264-T6-GCB (CAC BELT #18)	-	-	-	4	2
M264-48-GCB (CAC BELT #16)	-	-	2	-	-
28F5879-10 SUB ASS'Y	1	-	-	-	-
28F5879-9 SUB ASS'Y	-	1	1	-	-
Q7008-A17-064	4	4	4	4	4
AC 365-1032	4	4	4	4	4
AN 3-6A	4	4	4	4	4
Q7008-M11-063	4	4	4	4	4
AC 935-8 (SEE NOTE)	4	4	2	2	2
-12 SUB ASS'Y	-	-	2	2	2
-11 SUB ASS'Y	-	-	2	2	2
AN 960D10	4	4	4	4	4
AN 935-8	4	4	4	4	4
AN 340-8	4	4	4	4	4
AN3-D10A	4	4	4	4	4
28F5039-1	1	1	1	1	1
28F5033-1	1	1	1	1	1
AN 8032-8	4	4	4	4	4
Q5762-K16-27	1	1	1	1	1
28F4061	1	1	1	1	1
28F4061-1	1	1	1	1	1
28F5858-0	1	1	1	1	1
-8 SUB ASSY	1	-	-	-	-
-7 SUB ASSY	-	1	1	1	1

PART No.	STOCK	MATERIAL	SPEC	LG DIM REQ	LG DIM REQ	LG DIM REQ	LG DIM REQ	LG DIM REQ

A/C MAINT	NONE	NONE		6-3-62	
HEAT TREAT	FINISH		DRAFT CHECK	SUPERVISOR	DATE

NAME INST - FURN - BUNK SAFETY BELTS

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J — 28F5859

H 350

LET	ALTERATIONS	DATE	BY
AB	SURFACE FINISH PER SPEC. CHANGED		
AF	DRILLED 18 SLOT WITH (2) HOLES		
AL	ADDED DIM. NOW 7/8		
AL	CHANGE -7 TO -7A (REF) -7 CHANGE -7A TO A 4 PLACES WILL USE -7B TO DRILL FRAME -8 TO SUIT ADD BRACKET -9 ADD 4 REQ'D HOLES PER 28F5922 REVISED TO ADD HOLES ALIGN WITH 28F5922		
AO	REMOVED -10 FROM PART OF DWG. # DELETED -10 WITH -13 & ADDED (-8) 2 REQ'D WAS 28F5922 2 REQ'D. WAS 1 ADDED NOTES & ADDED NOTE "PARTS ALREADY SENT TO CUSTOMER PER "A" DIM 7/8 WAS 1 1/16 WAS 20 3/16 WAS 24 1/16 WAS 20 1/2 WAS 20 1/2 . 9 1/2 WAS 13.		
AR	ADDED 2 A-CHGS PER ADDED SEE NOTE		
AS	REMOVED (2) 1/4 R HOLES & 1/8 R HOLE & ADDED (2) 1/4 R HOLES IN -13 & (1) 3/8 R HOLE IN -8 CUT-OUT AS SHOWN NOTE "CUT 1/4 R ETC." & "CUT 3/8 R ETC" ADDED NOTE "DRILL #30 (.128)		

SAWCUT WITH DRILL #30(.128) AT END OF CUT IN -12 L&R TO ALLOW INSERTION OF 28F5140-58 -10 (REF.) 1 PLACE EACH

(APPROX.) DETERMINE EXACT LOCATION ON INSTALLN.

-7 SUB-ASSY (REF)

SECTION B B

12 DIA.

B

B

28F5921 (REF)

END OF LABEL

SUB-ASS'Y (REF)

END OF SLOT (REF)

-13 CAP - WELD IN PLACE / REQ'D. ON - 7 & 8 R

CUT 3/8 SLOT IN -12 L&R 5 1/8 LONG - SLOT TO BE CUT STRAIGHT TO SUIT 28F6140 (REF)

28F5922 SEE VIEW 'C'

3/16 DRILL (5) - 3/8 SPACING ON -12 L&R

1 1/2 DIA

-11 (REF)

1/4 OD TUBE GRADUALLY TAPERS TO 3/8 DIA IN THIS DISTANCE

28F5920 (REF) SEE VIEW 'C'

SEE VIEW 'C'

28F5140 VENT CONTINUOUS WELD TO -12 L&R

WELD

1/2 SWEDGE TO

5/8 (APPROX) LOCATE TO SUIT INSTALLN.

-4 SUB ASS'Y

-2 SUB-ASS'Y

-12 TUBE

-9 TUBE

28F5922 (REF)

SECTION A A

-10 (REF)

DRILL #18 (.1695) IN 28F5921 (REF)

MS35000B2

-8 SUB-ASS'Y

-3 (REF)

-7 (REF)

*NOTE
CHANGES C, D & E HAVE BEEN RUSH RELEASED

NOTE:
PARTS ALREADY SENT TO CUSTOMER MUST BE REMARKED THESE PARTS MAY THEN BE CANCELLED.
CONTRACT AMENDMENT #1
CONTRACT D.F. 310

PARTS RUSH RELEASED FOR 5 AIRPLANES

FINISH CODE	
Z	CHEMICAL TREATMENT
P	PAINTED
AP	ALUMINIZED PAINTED
C	CADMIUM PLATE

GP GREEN PRIMER

ITEM	PART NO.	NOMEN.	MATERIAL	SPEC	QTY
-11	28F5938	BRACKET			1
-12	28F5939	BRACKET			1
-14	28F5940	BRACKET			1
-1	28F5921	PLATE			1
-2	28F5922	PLATE			1
-3	28F5923	PLATE			1
-4	28F5924	PLATE			1
-5	28F5925	PLATE			1
-6	28F5926	PLATE			1
-7	28F5927	PLATE			1
-8	28F5928	PLATE			1
-9	28F5929	PLATE			1
-10	28F5930	PLATE			1
	28F5931	BRACKET			1
	28F5932	BRACKET			1
	28F5933	BRACKET			1
	28F5934	BRACKET			1
	28F5935	BRACKET			1
	28F5936	BRACKET			1
	28F5937	BRACKET			1

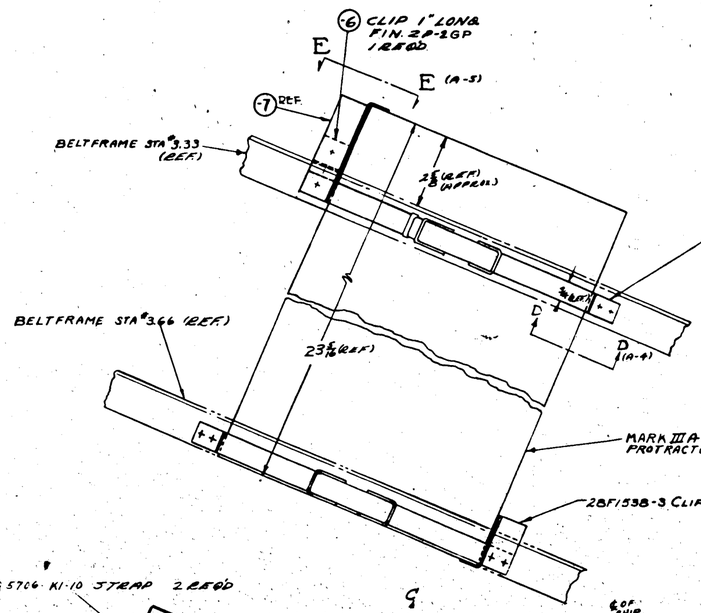
MATERIAL	NONE	XP-AP	
DRAWN			
TRACED			
STRESS			
APPROVED			
DATE			

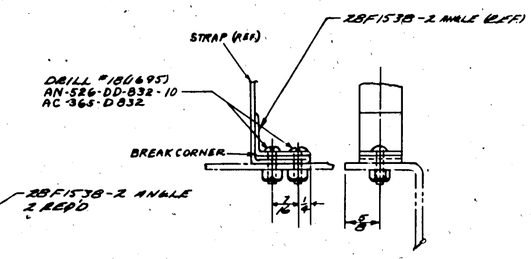
ASSY: PANEL-WINDSHIELD DEICER-CONTROL TUBE

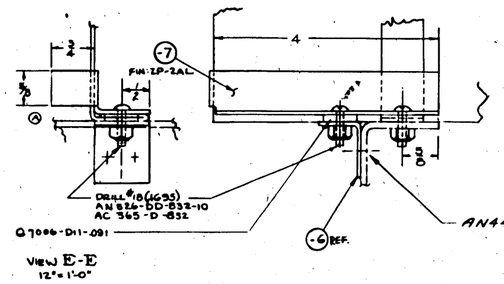
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

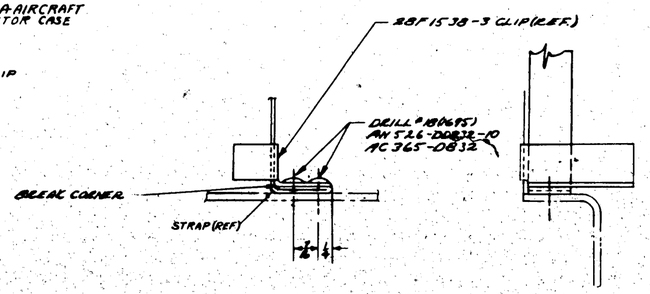
SIZE J | DWG NO. 28F5923

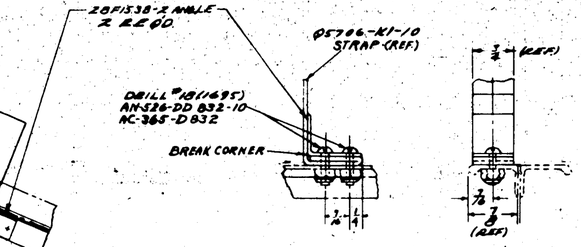
H 351

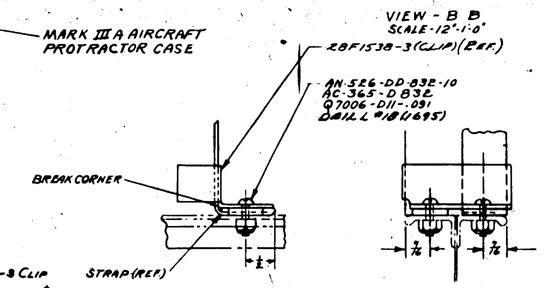












MATERIAL NOTES-
1-MAT'L FOR -6 MAY BE-
A (A) Y-6-A1TT X 1 1/8, OR
(B) K1288 X 1 1/8, AL AL EXTR, SPEC QQ A 354-T.
2-MAT'L FOR -7 MAY BE-
(A) Y-6-A1TT X 4 3/8, OR
(B) K1288 X 4 3/8, AL AL EXTR, SPEC QQ-A-354-T

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	#1 B/M, FOR -6, REPLACED K1288 1 1/8 AL ALLOY, SHEAR CUT WITH "NOTED" FIN. #2 REPLACED K1288 4 3/8, AL ALLOY, SHEAR CUT WITH "NOTED" ON FIN. FIN. #3 REMOVED NOTE "BREAK CORNER." ADDED PART NOTES 7 & 8.		

WT. CHG. PER B-643 7 Feb 62

FINISH CODE	
Z	ANODIC TREATMENT
P	P-D PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

GP. GREEN PRIME

	AN442-D4				
	28F1538-3		1	1	C-2 C-3
	28F1538-2		2	2	D-3 B-3
-6	28 STR. RDG 28 B SLLS 4 EA				
-6	28 GNR. PK 28 B SLLS 4 EA				
-0	28 SANR 28 F & 28 F				
-5	P21-A 28 B 21 B 5				
-5	P21-2 28 B 21 B 5				
-4	BRY-3 B 28 BOLT 4				
-4	28 FTG 28 F NUT 4				
-2	P21-2A 28 F 21 B 2				
-2	BRY-3A 28 F 21 BOLT 2				
-2	BRY-3 28 F 1003 2				
	MODEL FIRST ASSY				
	REQUIREMENTS FOR AIRPLANE				
	DUPLICATE 3 ONLY QTY.				
	DUPLICATED BY DATE				
	LIST OF SUPERSEDED DRGS. SCALE 6"=1'-0" STAMP PART NUMBER SPECIAL MARKING				

C-2 C-3 D-3 B-3

C-1 C-2 C-3 A D-3 B-3 C-2 A

C-4 A-5 B-1 B-2 C-2

A-2 A-5 C-4 A-1 A-5

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28-GANG EO A2035

LET	ALTERATION	DATE	BY
A	ADDED DIM FROM 1 1/4 TO 2 1/16 (11 TO A6)	4-8-43	
B	REVISED -8 & ADDED ASSEMBLY 01 & AC 865-D10052 (1)	4-28-43	
C	REMOVED -8 & -11 & ADDED 28F4387-20 REQ'D WITH CUT-OUT	4-30-43	WITCH
D	ADDED TO FACE DETAIL OF -10. REMOVED FROM FACE. NOTE "ANGLE TO ALIGN" IN DWG FOR -8 REPLACED "K5401-118 3/4" WITH "V.E.A2TRT x 1 1/4 WIDE V.E.A2ST x 1 3/4" FOR -7 REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -10 REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 1/2" FOR -11 REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -12 REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -5 REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -18 REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -E REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -F REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -G REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -H REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -J REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -K REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -L REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -M REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -N REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -P REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 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"V.E.A2ST x 1 3/4" FOR -FS REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -FT REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -FU REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -FV REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -FW REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -FX REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -FY REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -FZ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GA REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GD REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GE REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GI REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -GJ 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"V.E.A2ST x 1 3/4" FOR -HB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HD REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HE REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HI REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HJ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HK REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HL REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HM REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HN REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HO REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HP REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HQ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HR REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HS REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HT REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HU REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HV REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HW REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HX REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HY REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -HZ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IA REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -ID REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IE REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -II REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IJ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IK REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IL REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IM REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IN REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IO REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IP REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IQ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IR REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IS REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IT REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IU REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IV REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IW REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IX REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IY REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -IZ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JA REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JD REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JE REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JI REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JJ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JK REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JL REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JM REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JN REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JO REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JP REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JQ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JR REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JS REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JT REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JU REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JV REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JW REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JX REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JY REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -JZ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KA REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KD REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KE REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KI REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KJ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KK REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KL REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KM REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KN REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KO REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KP REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KQ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KR REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KS REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KT REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KU REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KV REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KW REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KX REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KY REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -KZ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LA REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LD REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LE REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LI REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LJ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LK REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LL REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LM REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LN REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LO REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LP REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LQ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LR REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LS REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LT REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LU REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LV REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LW REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LX REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LY REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -LZ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MA REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MD REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -ME REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MI REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MJ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MK REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -ML REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MM REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MN REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MO REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MP REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MQ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MR REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MS REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MT REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MU REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MV REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MW REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MX REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MY REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -MZ REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NA REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NB REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NC REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -ND REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NE REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NF REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NG REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NH REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3/4" FOR -NI REPLACED "K5401-118 3/4" WITH "V.E.A2ST x 1 3

LET	ALTERATION	DATE	BY
B	TRACED		
C	ADDED - 2 ASSY WT CHG REQ		
D	DIM 6 7/16 WAS 6 3/16 DIM 21 5/8 WAS 21 1/8 DIM 13 3/8 WAS 21 5/8 NO WT CHG		
E	IN B/M, ADDED "(NOM - 22.0)" AT AC295 (R1601 22, ADDED "SEE NOTE" ON T ACT REPLACED CALLOUT AC225-8 & STUD(1) WITH NOTE "Q1601 22, OR AC225-8 & STUD" NO WT CHG		
F	DIM 13 3/8 WAS 7 3/16 & 6 1/16 NOTE "28 (.140) HOLES - 4 PLACES - 28F5958-8 (REF)" WAS "DRILL "28 (.140) HOLES - 5 PLACES - 28F5978-8 (REF)" "559 1/2 LG (14) IN - 0 ASSY, (13) IN - 2 WAS (16) IN - 0, (19) IN - 2 - AC 365 BB32 (15) IN - 0, (14) IN - 2 WAS (18) IN - 0, (18) IN - 2, Q 7102-ALB (4) IN - 0, (18) IN - 2 WAS (16) IN - 0, (14) IN - 2" WT CHG. NEG. -0.26 #/MOMENT		

℄ SHIP

PORT SIDE OF BULKHD 2.0
LOOKING AFT.
SCALE - 3"=1'0"

VIEW A-A
SCALE: 6"=1'0"

VIEW B-B
SCALE: 3"=1'0"

S.O. No 936-591: 200 PARTS (C-No. (5) 1-89, (C-918) 1C-9180) TO BE MADE & SHIPPED C-7049, 89876-1-90, C-10-996, C-11-1111, C-11-1112
S.O. No. 949 B 1-134 PARTS TO BE MADE & INSTALLED BY C.A.C.

Bur. of Aero Change - PBY-5 #16, PBY-5A #2

SYM	MODEL	PART NO.	REQ
-2	PBY-5A	28F6002	1
-2	PBY-5	28F1003	1
-0	PBY-5	28F1002	1
-0	PBY-5A	28F6001	1

REQUIREMENTS PER AIRPLANE
REPLACES 28F5978-7, 28F5979-7, 28F5978-8
REPLACED BY
SCALE 3"=1'0"

PART No	STOCK	MATERIAL	SPEC	-0 REQ	-2 REQ	-3 REQ	-4 REQ
Q7102-22 (SEE NOTE)				1			
AC224-B1				2	2	2	2
04303-D4				2	2	2	2
AC224-2				2	2	2	2
1106-416				1	1	1	1
AN960-6				4	4	4	4
PARTS POCKET				1	1	1	1
AC935-DBR				1	1	1	1
AC209-3				1	1	1	1
AC365-4 (SEE NOTE)				1	1	1	1
AC224-4				1	1	1	1
2452-4 1/4 DIA				1	1	1	1
04348				14	14	14	14
Q7102-416				1	1	1	1
28F1520-7				1	1	1	1
28F5979-7				1	1	1	1
28F5978-8				1	1	1	1

PARTS LIST PER ASSY

A-C				
NAVY				
HEAT TREAT	FINISH		DRAFT	CHECK

NAME INSTALLATION - FURN. BLIND FLYING CURTAIN
CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF
SIZE J
DWG 28F5977

H 354

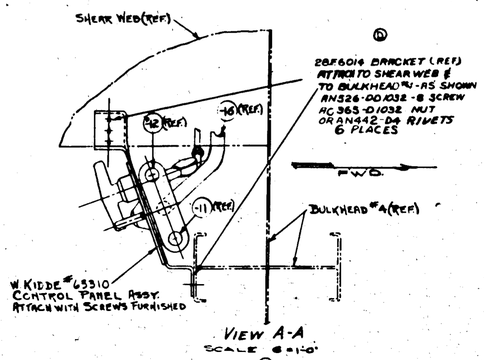
LET	ALTERATIONS	DATE	BY

LET	ALTERATIONS	DATE	BY
A	PER DRAWING AND TABLE AS SHOWN ADD 28B5544-19 AS SHOWN MARK 28B5544-1	9-30-42	
B	CHANGE 1 ASSY IDENTICAL TO NO EXCEPT 28F133-54 REPLACES 28F133-150	1-8-43	
C	PER MCR 255 ADD Q3106-D10-8 (B) & AC365D1032 (B) TO 28B5544-9 (REF)	4-21-43	

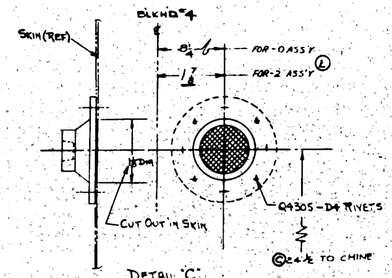
MCR 255

-8	ORIG	28B5544-9	
-7	CATO	28B5544-9	
-6	CATO	28B5544-9	
-5	CATO	28B5544-9	
-4	CATO	28B5544-9	
-3	CATO	28B5544-9	
-2	CATO	28B5544-9	
-1	CATO	28B5544-9	

| | | |

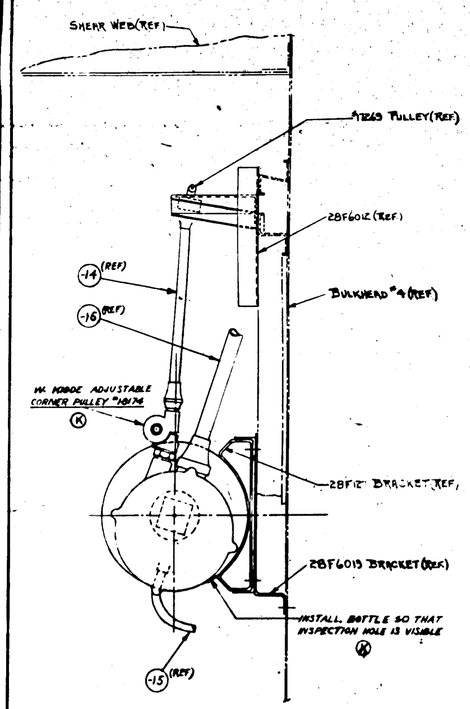


VIEW A-A
SCALE 6"=1'-0"

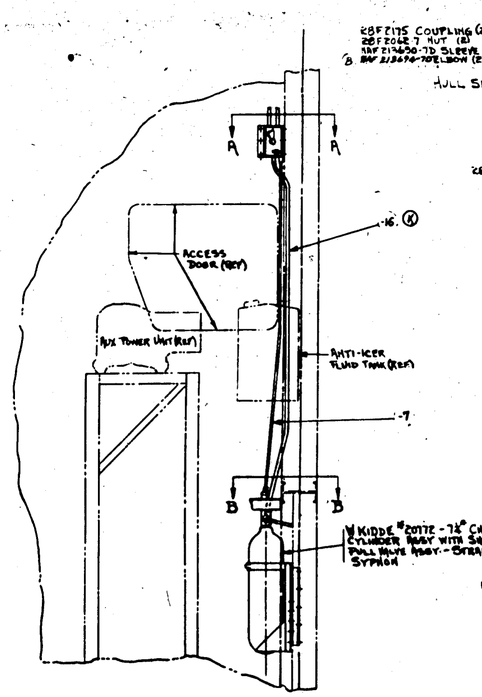


DETAIL "C"
SAFETY DISCHARGE SIGNAL ASSY

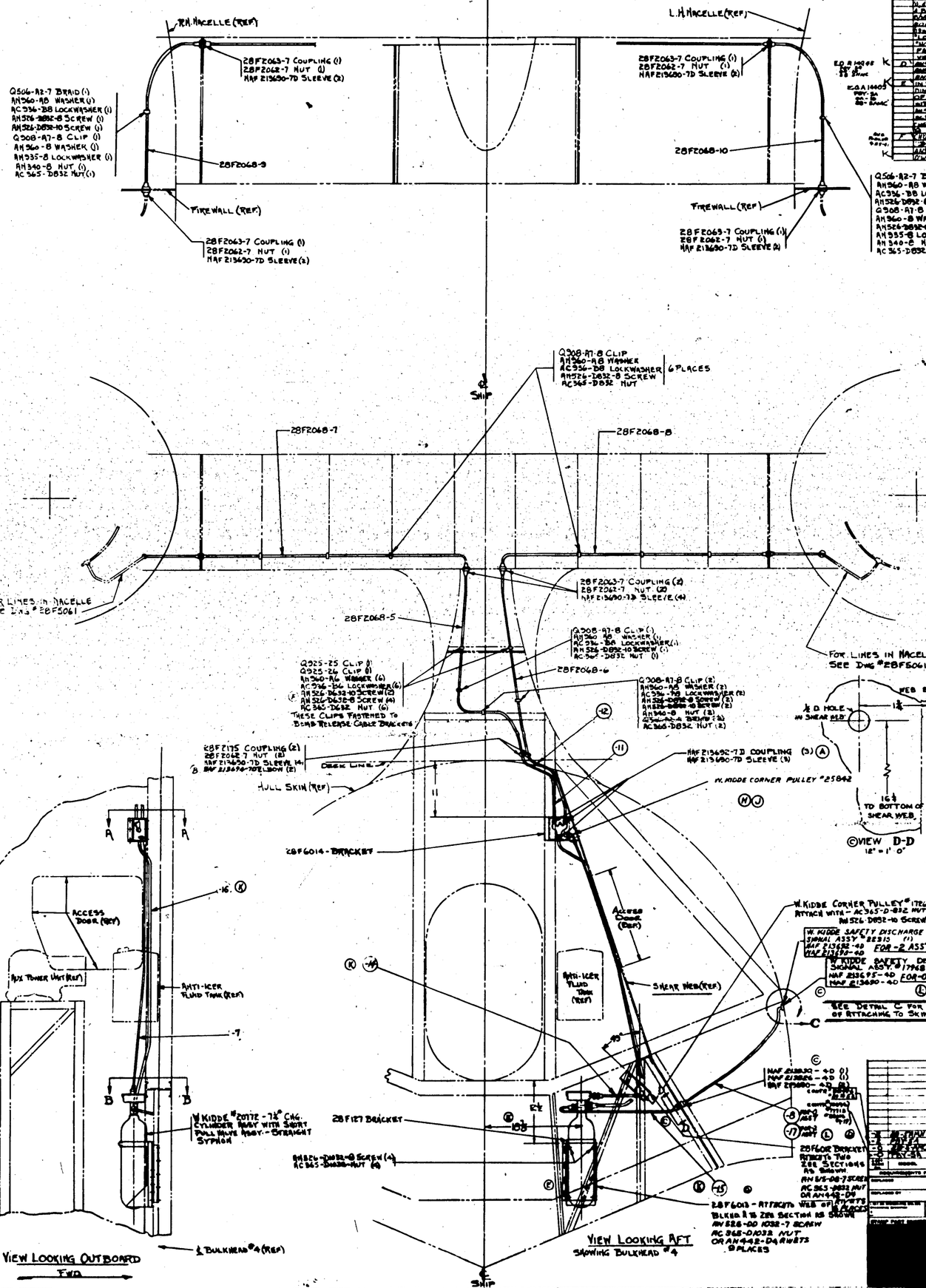
FWD



VIEW "B-B"
TYP.
SCALE - HALF SIZE



VIEW LOOKING OUTBOARD
FWD



VIEW LOOKING AFT
SHOWING BULKHEAD #4

REV-PA	E.O. 36590 —
CAU-1	
28B-AMC	

REVISED, 24-HR. EP FANS E.O. 47869
E.O. A10869
PDI-2A, CM-10, AN 2000

LTR	ALTERATION	DATE	BY
A	REPLACE MAF213648-7 COUPLING W. MAF213692-7D COUPLING & MAF213680-7D SLEEVE W. MAF213630-7D SLEEVE	11-24-47	
B	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	12-15-47	
C	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	
D	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	
E	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	
F	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	
G	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	
H	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	
J	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	
K	ADDED CHAR. AN4-8 HOSE TO AN814-4D UNION & AN6289-4D ELBOW	1-5-48	

E.O. A10869 PDI-2A, CM-10, AN 2000

E.O. A14405 PDI-2A, CM-10, AN 2000

ITEM	QTY	PART NO.	STOCK	MATERIAL	SPEC	DEC	DEC	DEC	DEC
						-0	-.3	-.4	-.8

PARTS LIST FOR ASSY

W. KIDDE #20772-72 CHARGED CYLINDER ASSY WITH SHORT PULL VALVE ASSY - STRAIGHT SYPHON

W. KIDDE #25310 - CONTROL PANEL ASSY WITH 6 JET OUTLETS WITH 8 FT CABLES

W. KIDDE 25842 OR 25784 CABLE CORNER PULLEY

W. KIDDE #178 ADJUSTABLE CORNER PULLEY

W. KIDDE #1968 - WEST EXCHANGE HOSE ASSY

W. KIDDE #874 ADJUSTABLE CORNER PULLEY

W. KIDDE #2316 - SAFETY DISCHARGE SIGNAL VALVE

AN315-D8-7

AN315-D8D832-7

AN815-D4

AN814-D4

AN6289-D4

AN6289-D6

AN6289-D8

AN6289-D10

AN6289-D12

AN6289-D16

AN6289-D20

AN6289-D24

AN6289-D32

AN6289-D40

AN6289-D48

AN6289-D64

AN6289-D80

AN6289-D96

AN6289-D128

AN6289-D160

AN6289-D192

AN6289-D256

AN6289-D320

AN6289-D384

AN6289-D512

Q506-A2-7

Q506-B2-7

Q925-25

Q925-26

MAF213692-7D

MAF213680-7D

MAF213684-7D

MAF213630-7D

MAF213684-40

MAF213630-40

MAF213680-40

MAF213692-40

MATL	FINISH	MATL	FINISH	MATL	FINISH
NAVY HOME HEAT TREAT	NONE	NONE			

INSTALLATION — FURNS — ENGINE FIRE EXTINGUISHER

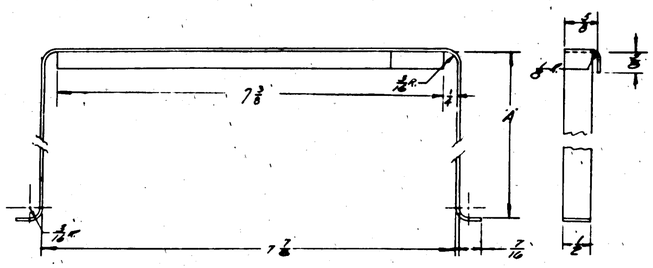
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SHT. NO. 1 OF 1 SHTS. DWG. NO. 28F6011

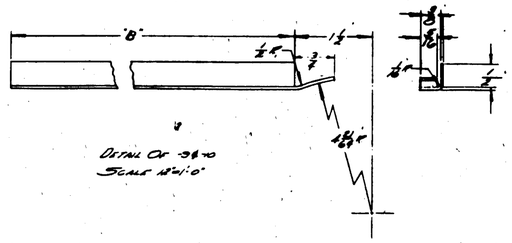
H 356

E.O. A 3727

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	ADD B/L 79-C-48 TO B/M.	5-28-48					

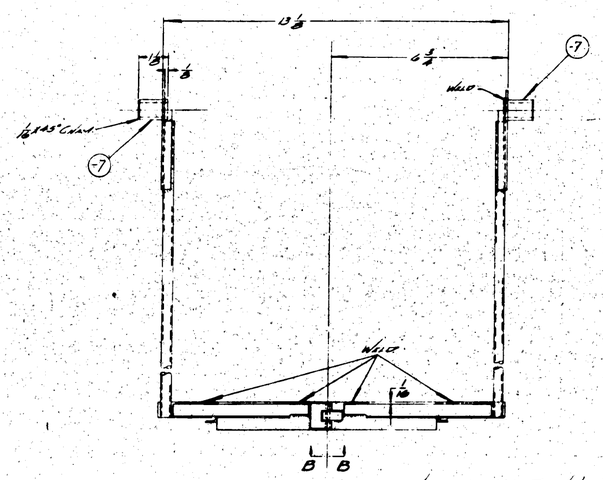


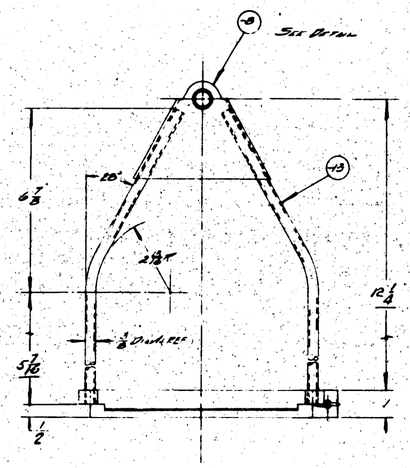
DETAIL OF -4 & -12
SCALE 12"=1'-0"



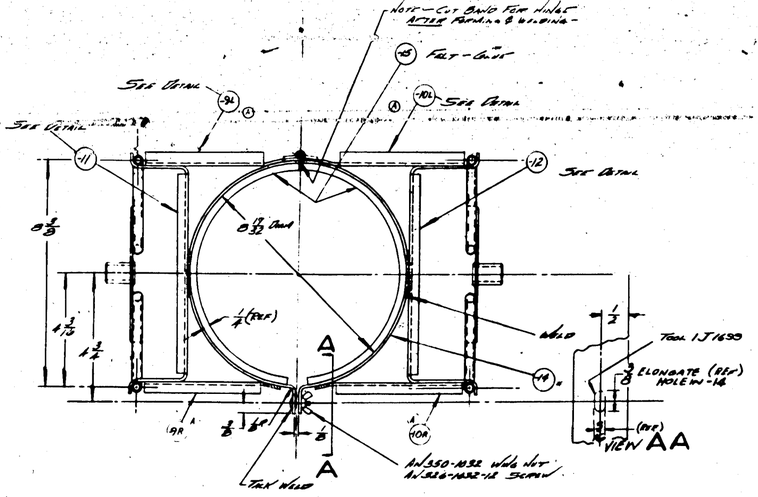
DETAIL OF -3 & -10
SCALE 12"=1'-0"

LENGTH DIM.	DASH NO			
	-9	-10	-11	-12
A	—	—	7 15/16	8 7/16
B	4 15/16	4 7/16	—	—

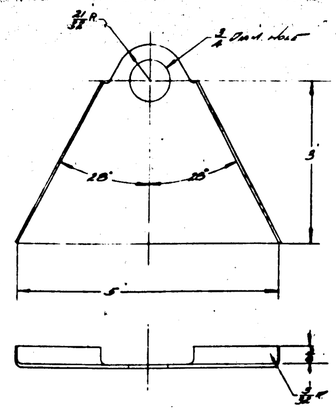




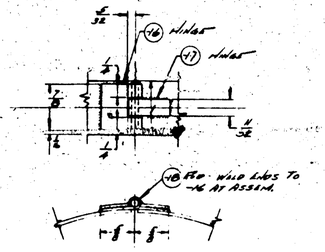
NOTE:—
ALL WELDED SHEET TO BE NORMALIZED BEFORE FINAL WELDING
ALL PARTS TO BE ARC WELDED



-6 SUB ASSEM.—



DETAIL OF -8
SCALE 12"=1'-0"



VIEW BB
SCALE 12"=1'-0"

PART NO.	SPEC.	MATERIAL	SPEC.	LIST NO. DES	LIST NO. DES	LIST NO. DES	LIST NO. DES	LIST NO. DES
	PARTS LIST FOR ASSY.			-0	-3	-9	-4	-8

A6						
HEAT TREAT	FINISH	DRAWN	CHECKED	STRESS	APPROVED	DATE
C-F						

SUPERSEDES
SUPERSEDED BY

NAME F-86 CANOPY MOUNT ASSY. CANOPY INSTALL
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J — 2BF6018

MARINE BLUE 4.5G 10

ITEM	PART NO.	NOMENCLATURE	MATERIAL	SPEC.
-1		CHANNEL	24ST	24178
-2		CHANNEL	24ST	24178
-3		ANGLE	24ST	24178
-4		ANGLE	24ST	24178
-5		ANGLE	24ST	24178
-6		SUB ASSEM.		
-7		ANGLE	24ST	24178
-8		ANGLE	24ST	24178
-9		ANGLE	24ST	24178
-10		CHANNEL	24ST	24178
-11		CHANNEL	24ST	24178
-12		CHANNEL	24ST	24178
-13		ANGLE	24ST	24178
-14		ANGLE	24ST	24178
-15		ANGLE	24ST	24178
-16		ANGLE	24ST	24178
-17		ANGLE	24ST	24178
-18		ANGLE	24ST	24178

3 Subs - Serial Nos. - 2486
-2487
-2488

Contract Change 70496
Calendar No. -Q-1

H-357

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY

NOTE
FASTEN WEBBING TO B-106-14 WITH SEGID MARINE GLUE
WEBBING CLIPS ARE 05799-6 V. FASTEN WITH AN525-10-8 AND AN365-1052

SECTION A-A ROTATED 90°

SECTION B-B ROTATED 90°

SECTION C-C ROTATED 90°

SEC. D-D 12"=1'-0"

DETAIL OF -9 12"=1'-0"

SEC. E-E 12"=1'-0"

DETAIL OF 05761-K6-13 & 05764-K6-4

PORT SIDE LOOKING INB'D.

SEC. G-G 12"=1'-0"

DETAIL OF -12 12"=1'-0"

DETAIL OF -16 12"=1'-0"

PORT SIDE LOOKING F'W'D.

INSTALL ON BOTH SIDES OF SHIP
SEE DETAIL OF 05761-K6-10

INSTALL BOTH SIDES SHIP.

3 AIRPLANES SERIAL NOS - 2486, 2487, 2488
CONTRACT ORDER 70496
CHANGE NO -Q-1

NOTE - RIVETS ARE AN442-D6S SPACE APPROX. AS SHOWN

PART No	STOCK	MATERIAL	SPEC	REQ -0	REQ -2	REQ -3	REQ -4	REQ -5
-16	.051 x 3/4 x 3	ALCLAD SHT	4748-T					
-15	.063 x 1 1/4 x 7/8	ALCLAD INT	4788-T					
-14	V10 A117 320 1/2							
-13	KTDF - 10 1/2	AL ALLOY	4683-T					
-12	.040 x 1 1/4 x 1 1/8	ALCLAD SHT	4748-T					
-11	1/8 A532 - 2 3/4							
-10	.081 x 2 3/4 x 2	ALCLAD SHT	4748-T					
-9	.051 x 2 1/4 x 6 1/8		4748-T					
-8	.051 x 2 3/4 x 4 1/2		4748-T					
-7	.051 x 1 1/2 x 3 1/8	ALCLAD SHT	4748-T					
-6	K 501 P 14-3/4	AL ALLOY	4683-T					

A.C. NAVY HOME / NAVY TYPE	-6-10-16 PIC-1-0 EAP TOOLS VP PRIVATE AIR / FINISH	2-8-41 RELEASED / BY	
NAME INSTALLATION - ARMY - DELUXE CAMERAS		SIZE J	DWG NO 28F6023
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.			

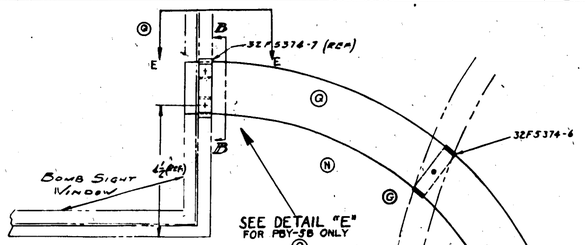
H-358

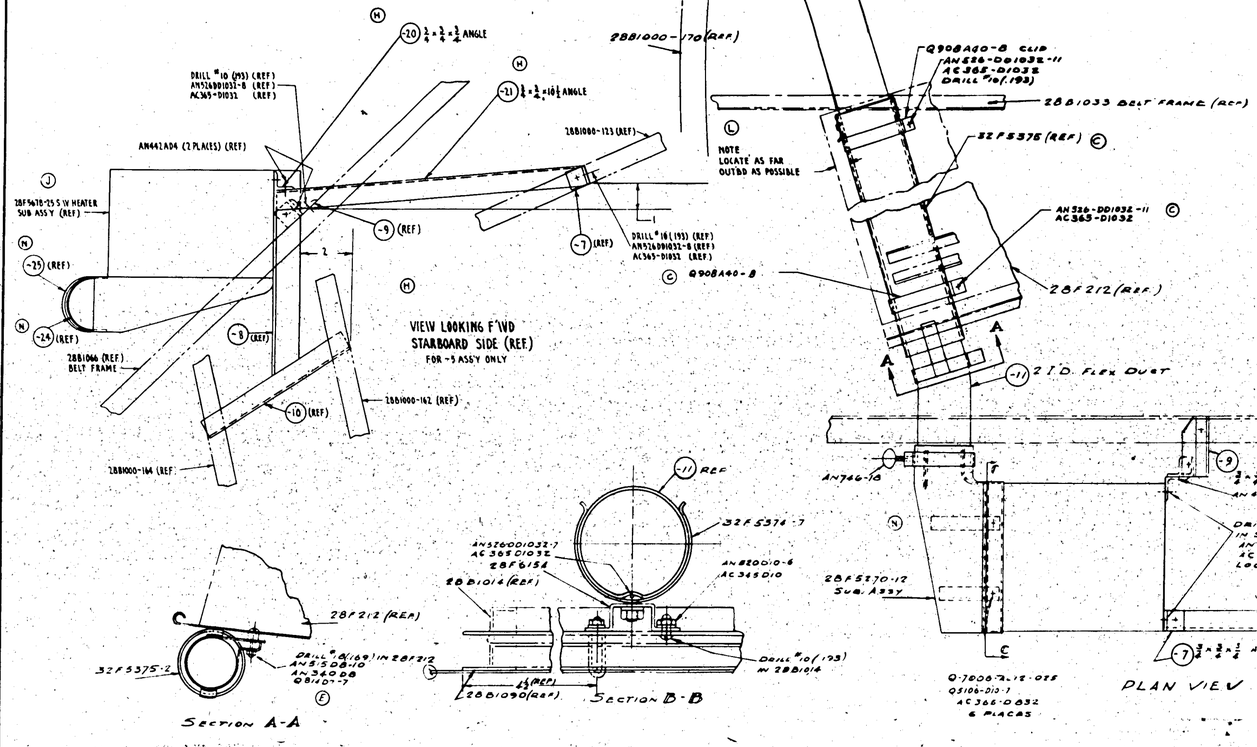
INCORP SUB. ASSO. CHANGE MANL. REV-50 NO. 19

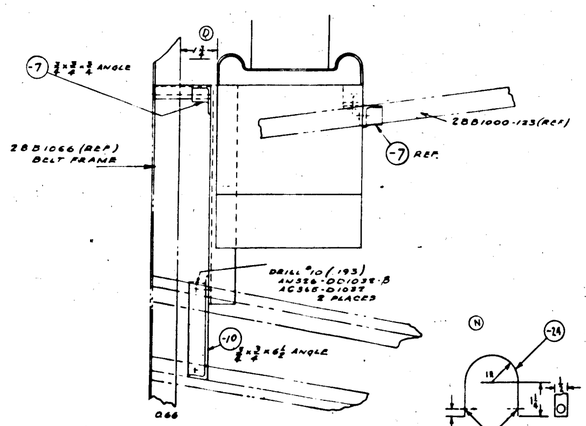
LET	ALTERATION	DATE	BY
L	75-11-0 ADDED A REF. 28B5523-19-6 W/ SYM (REF) & REMOVED 28B5523-19-6 (REF) & 28B5523-19-6 (REF) & ADDED "28B (REF) NOMEN.		
M	ADDED 28B5523-19-6 (REF) & REMOVED 28B5523-19-6 (REF) & ADDED 28B5523-19-6 (REF) & ADDED "28B (REF) NOMEN.		
N	ON BASIC RELEASE-H REV'D. RELEASE-I		

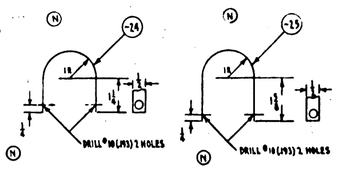
LET	ALTERATION	DATE	BY
A	CHG DIMS ON FACE OF DWG W/ MFG & ENG DIM. MADE IT POSITIVE DIM. ADDED 6 HOLES & ADDED "28F6037 (REF)" & REMOVED 36 & 76 & ADDED 16 & 56 DIM. VARIOUS SHEETS	10-26-54	E.O. A13896
B	CHANGED -2 ASSY'S ADDED 32F5125-11 (FOR -4 ASSY) & 32F5125-2 (FOR -2 & -4 ASSY'S)	1-11-55	E.O. A16705
C	DELETED "28B1400-40 (REF)" & ADDED "28B1400-40 (REF)"	1-19-55	E.O. A13412
D	ADDED "28B5523-19-6 (REF)"	1-19-55	E. 017639
E	ADDED -2 ASSY'S ONLY CHANGED 28B5523-19-6 (REF) TO 28B5523-19-6 (REF) & REPLACED 3 BUTTING HOLES ON 28B5523-19-6 (REF) & ADDED "28F6037 (REF)" & ADDED "28F6037 (REF)" & ADDED "28F6037 (REF)"

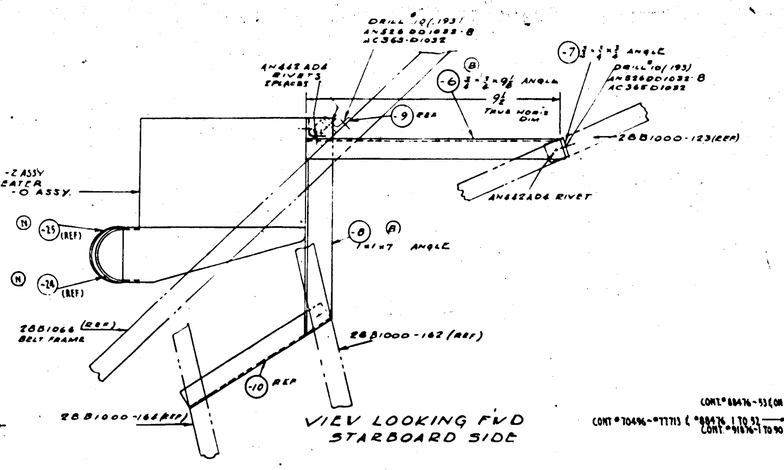
LET	ALTERATION	DATE	BY



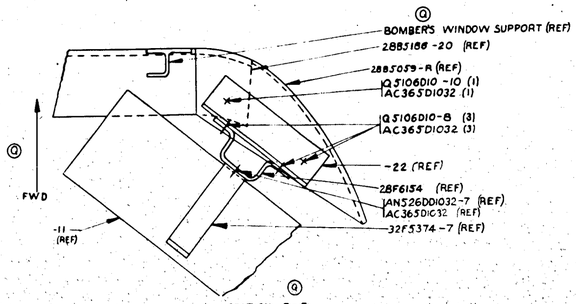








NOTE: THIS DWG HAS BEEN RUSH RELEASED 3-14-41



LET	ALTERATIONS	DATE	BY
	ADDED DOUBLER 28B5059-R (REF)		
	ADDED 28F6154 (REF)		
	ADDED AN526DD1032-7 (REF) AC365D1032 (REF)		
	ADDED 32F5374-7 (REF)		
J	ADDED PARTS LIST		
Q	REMOVED SEC. E-E (2) Q5106D10-8 (3) Q5106D10-10 (1) ADDED SEC. E-E (2) Q5106D10-8 (3) AC365D1032 (3) -22 (REF) 28F6154 (REF) AN526DD1032-7 (REF) AC365D1032 (REF) 32F5374-7 (REF)		
R	BOUGHT REQ. PER AIRPLANE BULLETIN NO. 1 DATE NO WT. CHG.		

LET	ALTERATIONS	DATE	BY
	ADDED 28F6152-17 SUB ASSY		
	ADDED 28F6152-15 SUB ASSY		
	ADDED 28F6152-16 SUB ASSY		
	ADDED -11 SUB ASSY -17 SUB ASSY -19 SUB ASSY -23 SUB ASSY -25 SUB ASSY		

PART No.	STOCK	MATERIAL	SPEC	-0 REQ	-2 REQ	-3 REQ	-4 REQ
-11	AN6289-10 x 10 1/2	AL ALLOY	61ST-T				
REF 61ST-10	AN6289-10 x 9 1/4	AL ALLOY	61ST-T				
	28F6152-15 SUB ASSY						
REF 61ST-25	040 x VA x 7	ALCLAD	61ST-T				
REF 61ST-24	040 x VA x 6 5/16	ALCLAD	61ST-T				
1/2000 AL RIVETS							
AN931-3 WASHER							
AC365-1032							
AN174-3 R							
Q5106-310-1							
REF 5678-25 S.W. HEATER ASSY							
REF 2870-12 SUB. ASSY							
REF 61ST-11 FLEXIBLE TUBE DUCT (INCL. W.)							
	28F6152-18 SUB ASSY						
REF 61ST-19	040 x VA x 7	ALCLAD	61ST-T				
REF 61ST-23	040 x VA x 6 5/16	ALCLAD	61ST-T				
Q7004-AL-RIVET							
AC365-1032							
AC930-8-10							
Q5106-310-1							
REF 5678-25 S.W. HEATER ASSY							
REF 2870-12 SUB. ASSY							
REF 61ST-11 FLEXIBLE TUBE DUCT (INCL. W.)							
	28F6152-17 SUB ASSY						
REF 61ST-21	040 x VA x 7	ALCLAD	61ST-T				
REF 61ST-22	040 x VA x 6 5/16	ALCLAD	61ST-T				
Q7004-AL-RIVET							
AN931-3 WASHER							
AC365-1032							
AN174-3 R							
Q5106-310-1							
REF 5678-25 S.W. HEATER ASSY							
REF 2870-12 SUB. ASSY							
REF 61ST-11 FLEXIBLE TUBE DUCT (INCL. W.)							
	28F6152-16 SUB ASSY						
REF 61ST-20	040 x VA x 7	ALCLAD	61ST-T				
REF 61ST-18	040 x VA x 6 5/16	ALCLAD	61ST-T				
Q7004-AL-RIVET							
AN931-3 WASHER							
AC365-1032							
AN174-3 R							
Q5106-310-1							
REF 5678-25 S.W. HEATER ASSY							
REF 2870-12 SUB. ASSY							
REF 61ST-11 FLEXIBLE TUBE DUCT (INCL. W.)							
	28F6152-15 SUB ASSY						
AN931-3 WASHER							
AN960-10 WASHER							
AN960-10L WASHER							
AN960-416 WASHER							
AN960-416L WASHER							
Q5106D10-10							
Q5106D10-8							
GREM-87-7							
28B5059-R							
AN365-832A							
AN365-1032A							
AN526-832E							
AN526-1032E							
AN526-DD832E-7							
AC365D1032A							
AN960-8A							
AC930-8-10							
AC930-8-8							
AC930-8-6							
AC930-8-5							
AN931-3 WASHER							
AN960-10 WASHER		AL ALLOY	61ST-T				
32F5374-7							
28F6154							
32F5374-6							
-11 SUB ASSY							
-17 SUB ASSY							
-19 SUB ASSY							
-23 SUB ASSY							
-25 SUB ASSY							
28F6152-5 SUB ASSY							

LET	DESCRIPTION	DATE	BY
	ADDED 28F6152-20 SUB ASSY		
	ADDED 28F6152-21 SUB ASSY		
	ADDED 28F6152-22 SUB ASSY		
	ADDED 28F6152-23 SUB ASSY		
	ADDED 28F6152-24 SUB ASSY		
	ADDED 28F6152-25 SUB ASSY		
	ADDED -0 SUB ASSY		
	ADDED -2 SUB ASSY		
	ADDED -3 SUB ASSY		
	ADDED -4 SUB ASSY		
	ADDED -5 SUB ASSY		
	ADDED -7 SUB ASSY		

CONT'D 6849G-93 (ON)
CONT'D 7049G-7771J3 (6849G-1 TO 93)
CONT'D 9196G-1 TO 90

AC		1/4 SCALE	
NAVY NONE	I-P-AP	DRAWN	JKH
WEAT TODAY	FINISH	TRACED	
		CHECKED	
		ENGR APPD	

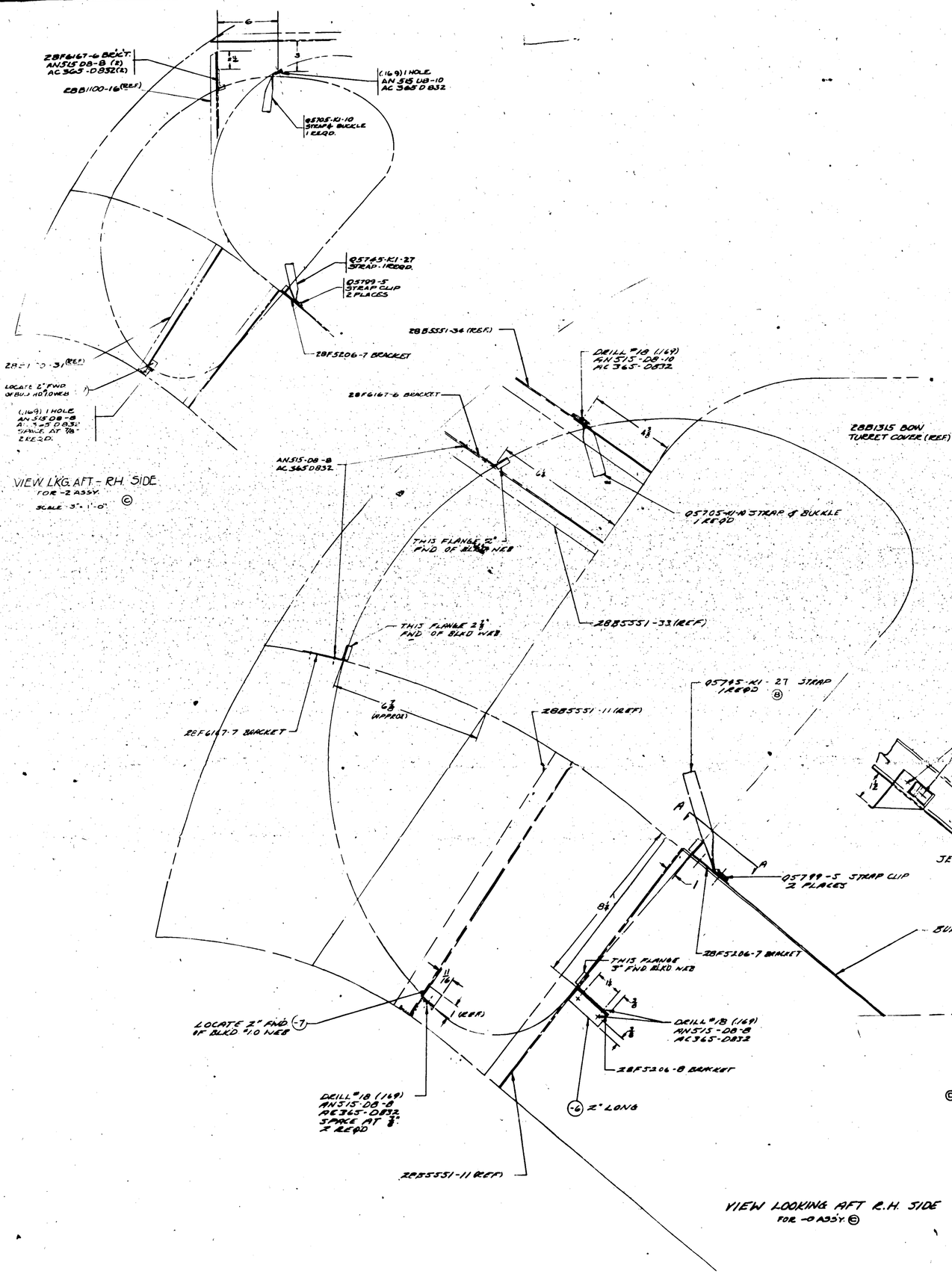
NAME INSTALL'N - FURNS - BOMBER'S HEATER & DEFROSTER
CONSOLIDATED AIRCRAFT CORP. San Diego Calif.
DWG NO. NONE
SIZE J
DATE
28F6152

H 361

LET	ALTERATION	DATE	BY

LET	DESCRIPTION	DATE	BY
A	W.O. 8 MAR 1962 PER MEMO NO. [illegible] EQUIPMENT WAS ADD AND DELETED AS SHOWN	[illegible]	
	AS REQUIRED.		
B	[illegible]		
	[illegible]		
	[illegible]		

LET	ALTERATION	DATE	BY
A	REVISED ROTS AIRPLANE		
B	ADD 05705-K1-10 STRAP & BUCKLE 1 REQD.		
C	CHANGED -2 FROM 1 REQD TO 2 REQD. ADDED 05705-K1-10 STRAP & BUCKLE 1 REQD.		
D	ADDED FIG -6, REVISED KEYWAY IN BL. EXT. ALUM. T" WITH "ROTATE" (FOR 4" RADIUS ON "A" USE 3/4 x 3/8 BL. EXT. ALUM. T" WITH "ROTATE" (FOR OLD PART). NOTES 2 & 4		



MATERIAL NOTES-
1-MAT'L FOR -6 MAY BE-
(A) Y-2-A28T x 2 1/2, OR
(B) K3401 X 2 1/2, AL AL EXTR, SPEC. QQ-A-354-T
2-MAT'L FOR -7 MAY BE-
(A) Y-6-A107T 1/8, OR
(B) K11820 X 1/8, AL AL EXTR, SPEC QQ-A-354-T

NOTE
THIS INSTALLN ALREADY COMPLETE IN PBY-5A #'S -11 INCL.

THIS DWG HAS BEEN RUSH REVERSED 10-8-41

FINISH CODE	
A	ANODIC TREATMENT
P	PAINT FINISH
AP	ALUMINIZED PAINT
C	CHROMATE PLATE

| | | |

LET	ALTERATION	DATE	BY
A	28F6176-2 WAS 28F6176 ADDED 17 5/16 DIM. NOTE LOCATE --HEATER & NOTE TRIM -- NECESSARY, NO WT CHG	9-12-41	
B	SEPARATED -2 ASS'Y NOS. WEIGHTS & 19 SH		
C			

BLKD "60

B.P. "62

℄ AIRPLANE

DRILL #18 (.169) AN515-D8-8 SCREW AC365-D832 NUT 2 REQD.

STRINGER 2881000-775 (REF)

17-1/4 (B)

ANGLE (B) 8 1/2 LONG

STRINGER 2881000 -773 (REF)

OXYGEN REBREATHER (REF)

DRILL #18 (.169) AN520-D10-8 SCREW AC365-D1032 NUT 3 PLACES

(B) TRIM THIS CORNER AT INST. IF NECESSARY. - NOTE -

28F6177 GUARD ASS'Y. (A) (B) NOTE: LOCATE GUARD EVEN WITH FWD SIDE OF HEATER

32F6185-2 HEATER ASS'Y (-0 ASS'Y

32F5125-5 HEATER ASS'Y (-2 ASS'Y) (C)

(-10) CLIP 2 REQD.

DRILL #18 (.169) AN515-D8-8 SCREW AC365-D832 NUT 8 PLACES

28B5241 WAIST GUNNERS FLR (REF)

(-6) 2 REQD TRIM LENGTH TO SUIT.

℄ HEATER (REF)

(-7) 2 REQD 6" LONG.

DRILL #18 (.169) AN515-D8-8 AC365-D832 4 PLACES

28B5241-10 (REF)

PLAN VIEW

← FWD

DRILL #10 (.193) AN520-D10-8 AC365-D1032 2 PLACES

(-6 (REF))

5 1/2

28B5241-11 (REF)

28B5241-10 (REF)

3/4

28F6176 DEFLECTOR

(-9) SUB ASS'Y

28F5710-9L DEFLECTOR USE 28F5710-7L DEFLECTOR IF OLD TYPE HEATER IS USED

STRINGER 2881000 -775 (REF)

(-0 ASS'Y) 32F5125-2 HEATER ASS'Y (REF)

(-2 ASS'Y) 32F5125-5 HEATER ASS'Y (REF)

(C)

28F6177 GUARD ASS'Y (REF)

(-6) 2 REQ'D. (REF)

BULKHEAD #62 (REF)

DRILL #18 (.169) AN515-D8-8 SCREW (REF) AC365-D832 NUT (REF) 8 PLACES (REF)

3/8

(-10A) CLIP 2 REQ'D

DRILL #10 (.193) IN (-7) AN520-10-6 SCREW AC936-A10 LOCK WASHER 4 PLACES FOR HEATER MOUNT.

DRILL #18 (.169) AN515-D8-6 SCREW AC365-D832 NUT 1 PLACE

AN442-AD3 RIVETS 7 PLACES

(-8 (REF))

NOTE: THIS D/W. HAS BEEN RUSH RELEASED 10-21-41

NOTE -6, -7, -8, & -9 ALLER ALREADY COMPLETE FOR 16 AIRPLANES.

CONTRACT NO. 88476 PLANES #534 ON
CONTRACT #9876

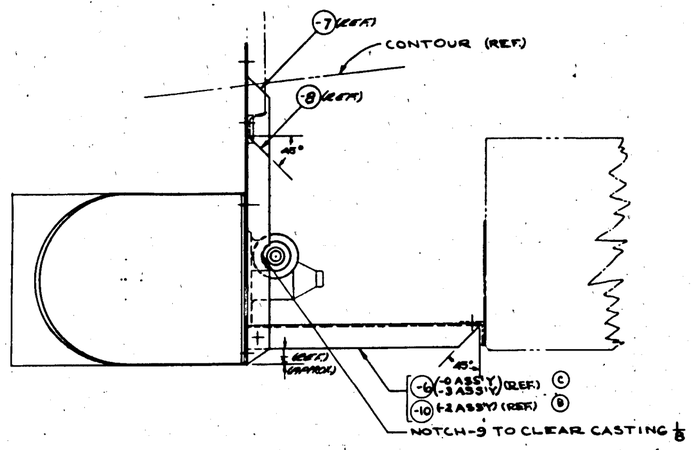
CONTRACT NO. 7713 PLANES #1-3 INCL
CONTRACT NO. 76896 PLANES #1-533 INCL
CONTRACT NO. 7713-88476 PLANES #534-562 INCL

NOTE: THIS INSTALLN TO BE INSTALLED IN PLANE #1 AFTER COMPLETION OF FLIGHT TESTS.

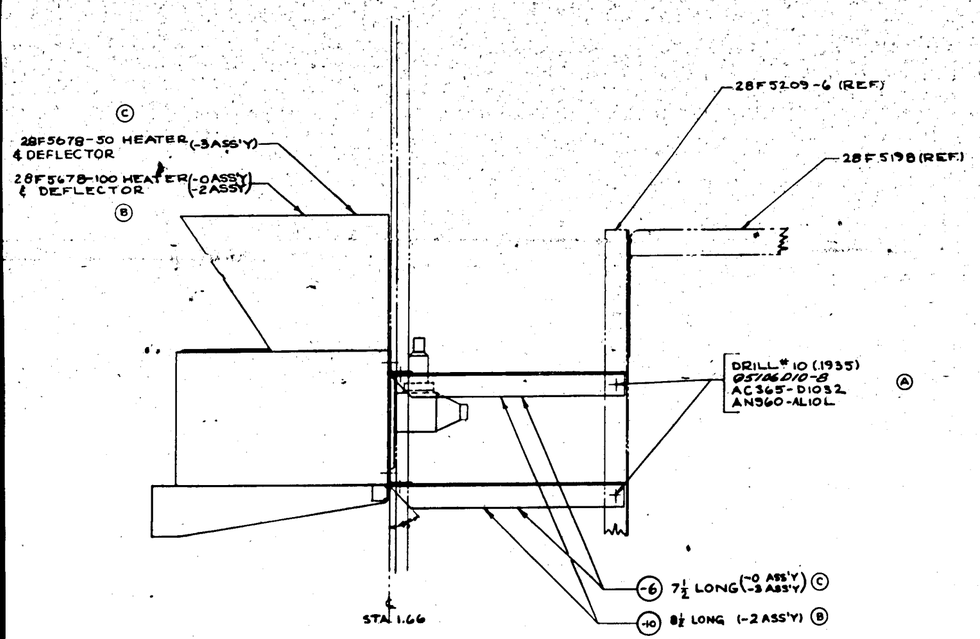
FINISH CODE	
Z	ANODIC TREATMENT
P	PAINTED
AP	ALUMINIZED PAINT
C	CADMIUM PLATE

| | | |

LET	ALTERATION	DATE	BY
A	DETAIL DWG -8 (B) WAS CHANGED DWG -8 (A)		
B	CREATED -2 ASS'Y. WAS WITCHED	8-24-42	[illegible]
C	CREATED -3 ASS'Y. ADDING		
	-10 SUB-ASSEM. WAS WITCHED	8-24-42	[illegible]
D	-11 SUB-ASSEM. WAS -10 SUB-ASSEM. NO WT. CHG.	8-24-42	[illegible]

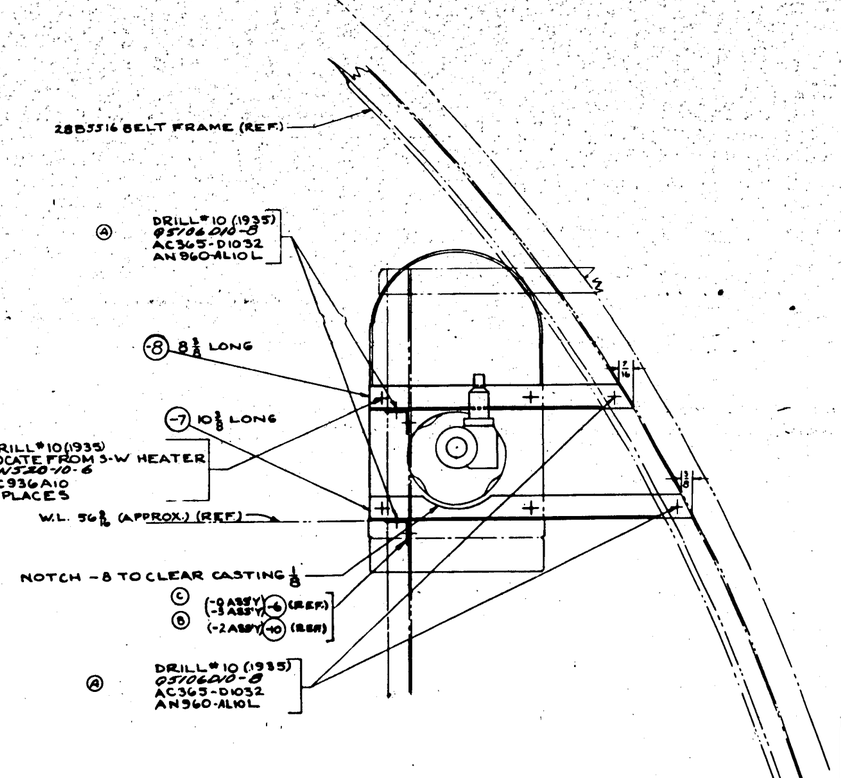


PLAN VIEW



VIEW LOOKING OUTB'D

~~F'W'D~~



VIEW LOOKING F'W'D

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIM.
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

* NOTE:
PBY-5A CONTRACT # 70496
PLANES #1-#35 INCL.
& CONTRACT #77713
PLANES #1-#3 INCL.
C-88476 SHIP #88 & ON
C-91876 →

THIS DRAWING HAS BEEN RUSH RELEASED

NOTE: 18 PIECES OF -7, -8, & -9 ALREADY MADE BY MISC. PARTS DEPT.

THIS DWG. HAS BEEN RUSH-RELEASED 8-28-41

PART NO.	DESCRIPTION	MATERIAL	SPEC.	-0 REQ.	-2 REQ.	-3 REQ.	-6 REQ.	-10 REQ.
AC936A10						4		
AN320-10-6						4		
28F6174-9	K3401 X 8 1/2	AL ALLOY BLT	46A9	C-T	1			
28F6174-7	K3401 X 10 1/2	AL ALLOY BLT	46A9	C-T	1			
-11	SUB-ASSEM.							
AC936A10						4		
AN320-10-6						4		
28F6174-9	K3401 X 8 1/2	AL ALLOY BLT	46A9	C-T	1			
28F6174-7	K3401 X 10 1/2	AL ALLOY BLT	46A9	C-T	1			
-9	SUB-ASSEM.							
AN960-AL10L						6	6	6
AC365-D1032						6	6	6
05106 D10-8						6	6	6
28F6174-11	SUB. ASSEM.			1				
28F6174-10	K3401 X 8 1/2	AL ALLOY BLT	46A9	T	1			
28F6174-8	K3401 X 10 1/2	AL ALLOY BLT	46A9	T	1			
28F6174-9	SUB-ASSEM.			1				

DWG	DESCRIPTION	REVISIONS
-3	PBY-5A [illegible]	
-2	PBY-5 [illegible]	
-0	PBY-5A [illegible]	

REQUIREMENTS PER AIRPLANE

REPLACES

REPLACED BY

SCALE 6" = 1'-0"

AS				1/16	FREE	C-7/8	WFS	K&S
MAT'L NONE		ZP-AP		C-7/8				
HEAT TREAT		FINISH		DRAFT	DESIGN	STRESS	DAT	APPROVED

NAME INSTALL'N-FURN'S CO-PILOT'S HEATER

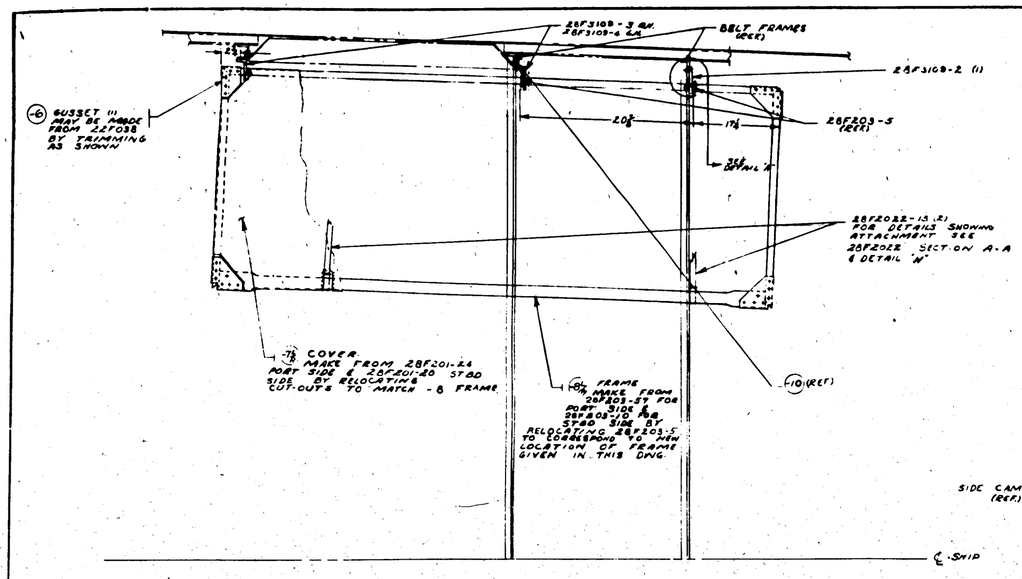
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

OFF HAND

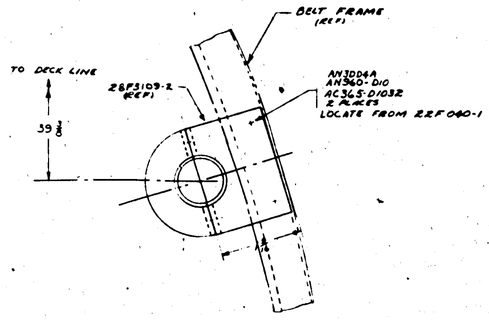
DWG 28F6174

H 365

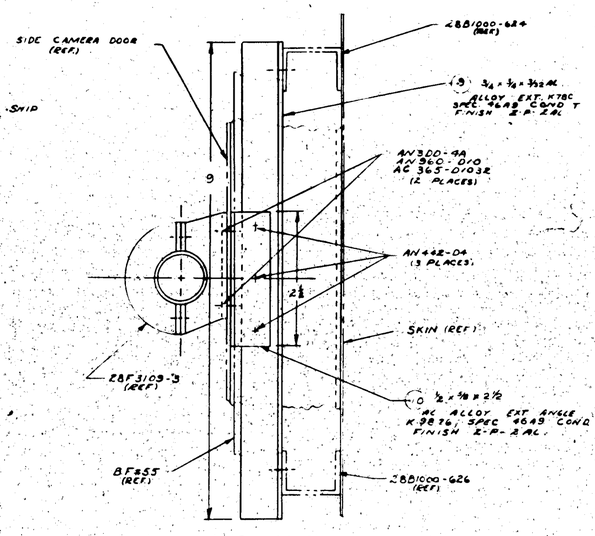
MFT	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



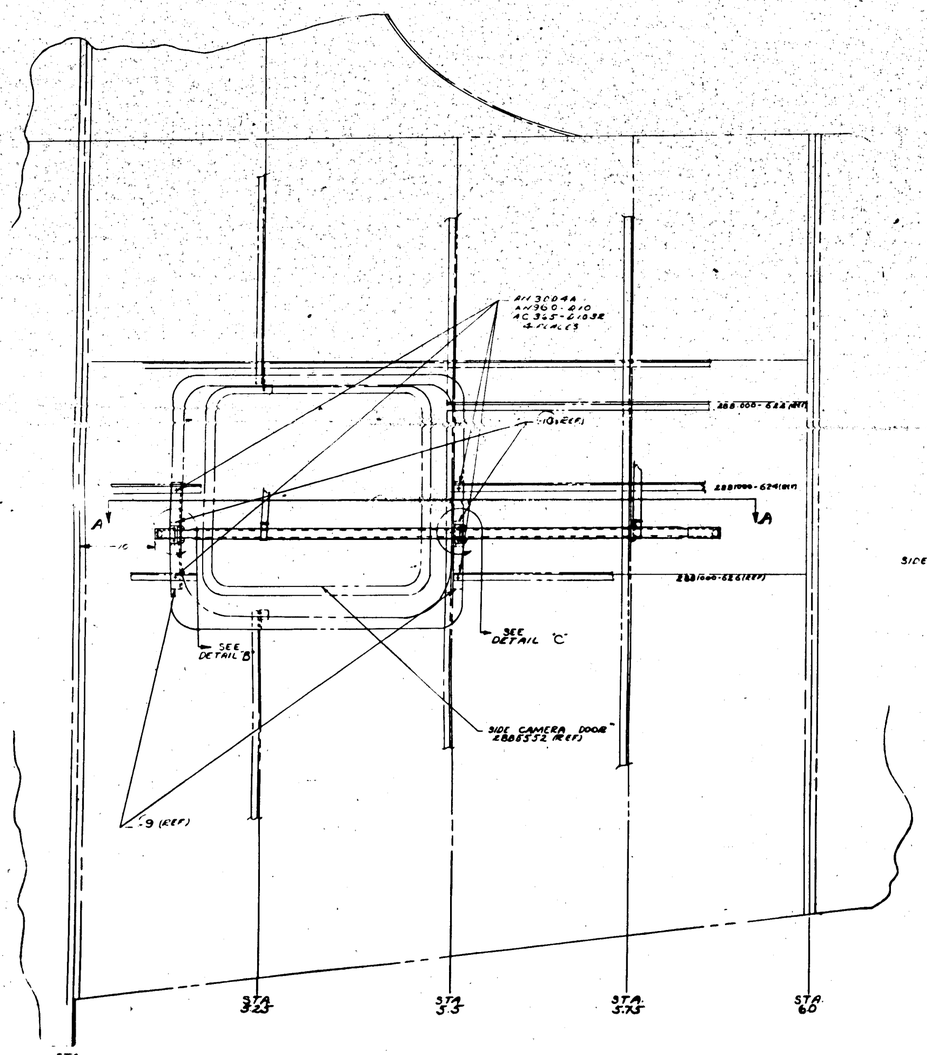
SECTION A-A



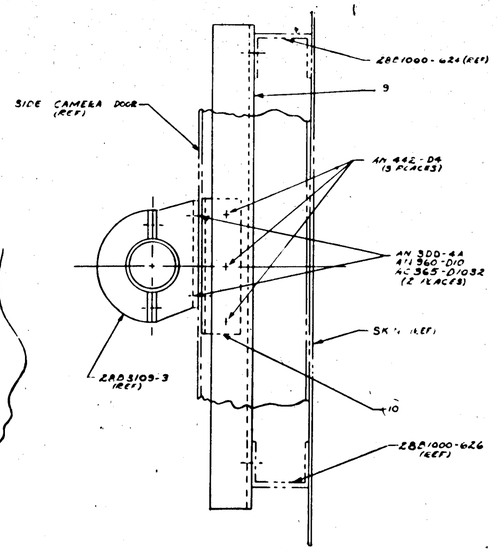
DETAIL 'A'
SCALE 12"=1'-0"
SHOWING ATTACHMENT OF UPPER BUNK TO FRAME @ STA 323



DETAIL C
SCALE 12"=1'-0"
SHOWING ATTACHMENT OF UPPER BUNK TO FRAME AT STA 355



VIEW LOOKING OUTBD STBD. SIDE
(PORT SIDE OPPOSITE)



DETAIL 'B'
SCALE 12"=1'-0"
SHOWING ATTACHMENT OF UPPER BUNK TO FRAME BETWEEN STA 300 & 325

NOTE:

1. INSTALLATION OF LOWER BUNKS ARE SAME AS FOR OTHER PBY-5A SHIPS AND IS SHOWN ON 28F4039 FOR PORT SIDE AND 28F2022 FOR STBD SIDE
2. UPPER AFT DRAWER BUNKS ARE PARALLEL TO SKIN LINE.
3. BEAM BEARING BRACKET FOR BEARING FIT WITH BUNK TUBE AFTER ASSY OF BEARINGS
4. FOR DETAIL OF ATTACHMENT NOT SHOWN ON THIS DWG SEE 28F2022.
5. -6 ASSY IS FOR STBD SIDE AS SHOWN & -2 ASSY IS FOR PORT SIDE OF SHIP

PBY-5A & 2486, 2487 & 2488 FOR MARINES AND ARE ALREADY COMPLETED.

| | | |

LET	ALTERATION	DATE	BY
A	11/16 WAR 1048		

2BB6201-7(REF.)

D1168T ALCOHOL PUMP(REF.) THE ACROTORQUE CO.(REF.)

2BF6231 CLAMP(REF.)

2BB6201-11(REF.)

2BF6211 BR'KT. ASSY.(REF.)

2BF6211 BR'KT ASSY.

15⅞ LENGTH OF -7

15⅝ LENGTH OF -8

50⅜ TO DECK LINE(REF.)

2BF6207 BR'KT(REF.)

Q5:106D10-10 SCREW (8)
AC372-D1032 NUT (8)

2BF6519(REF.)

2BB5521(REF.)

2BF6210-6 SUPT(REF.)

2BB5516(REF.)

2BF6210-7 SUPT.(REF.)

1110 ALCOHOL TANK(REF.) ACRO METALS CORP.(REF.)

2BF6208 BR'KT.(REF.)

2BF6230 CLAMP(REF.)

2BB5500-1207(REF.)

2BB5500-1209(REF.)

2BB5500-1211(REF.)

2BB5500-1213(REF.)

2BB5500-1215(REF.)

5⅛

⅛ (REF.)

13

Q5:106D10-10 SCREW (14)
AC372-D1032 NUT (14)

2BB5516(REF.)

2BB6168(REF.)

TO ℄ SHIP APPROX. 23⅛

OPEN TO 97° (2)

4½

11¼

⅛ HEEL (REF.)

VIEW LOOKING AFT

VIEW LOOKING OUTBD.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
ZP	ELASTOMERIC PRIMER
C	CADMIUM PLATE

RELEASE AFTER RUSH RELEASE
12/23/41

AC372-D1032
AN960D10

2BF6211

PART No.	STOCK	MATERIAL	SPEC	LET	NO REQ	LET	NO REQ	LET	NO REQ	LET	NO REQ
					-0		-2		-3		-4

PARTS LIST PER ASSY

NAVY /ANA	ZP-1P						
HEAT TREAT	FINISH	STRUCT	SHEET	STRUCT	SHT		

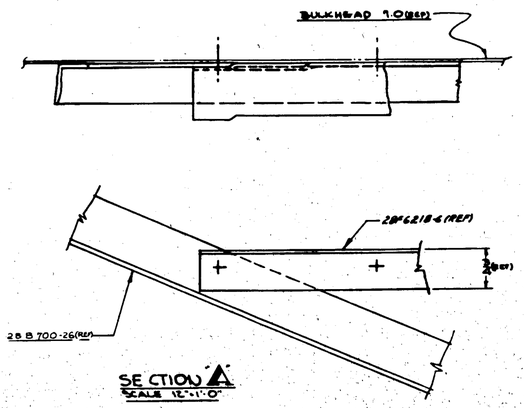
NAME INSTALL.-FURNS.-WINDSHIELD ALCOHOL PUMP & TANK BR'KT

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

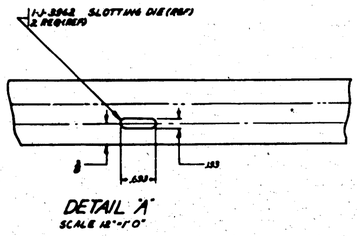
SIZE J — 28F6213

H 367

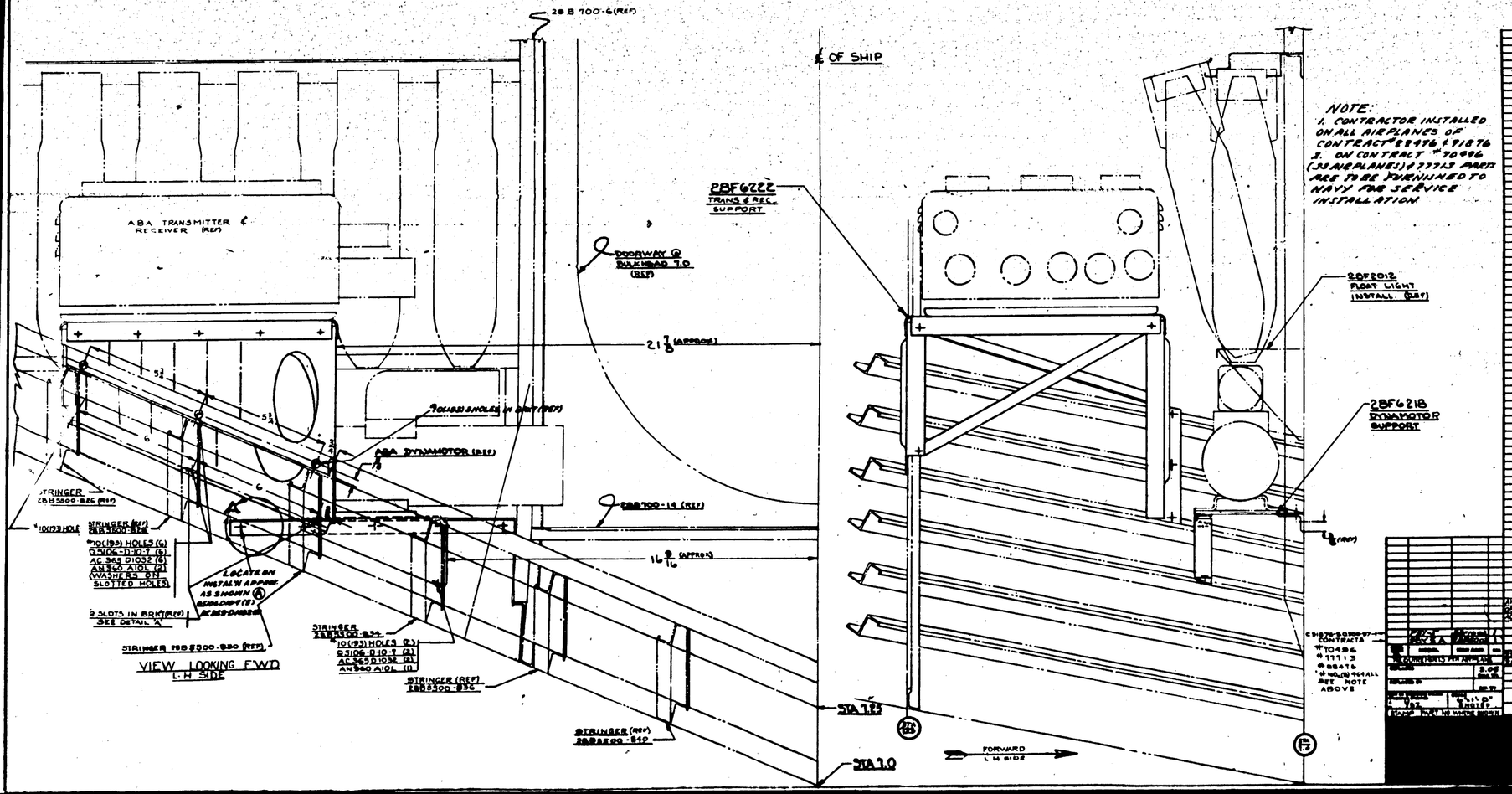
LTR	DESCRIPTION	DATE	BY	APP'D
A	CHANGED AN3107-14S (6) TO AN3107-14S-1 (6)	1-15-43		
B	CHANGED VIEW LOOKING FWD L.H. SIDE TO VIEW LOOKING FWD L.H. SIDE	2-15-43		



SECTION A
SCALE 12"=1'-0"



DETAIL 'A'
SCALE 12"=1'-0"



PART NO.	STOCK	MATERIAL	SPEC	QTY -0	QTY -1	QTY -2	QTY -3	QTY -4	QTY -5
			PARTS LIST PER ASSY.						

A-C									
NEXT HIGHER ASSY									
NEXT HIGHER ASSY	FINISH								

NAME INSTALL - FURNS. - ABA TRANS., RECEIVER & DYNAMOTOR SUPPORTS

CONSOLIDATED AIRCRAFT CORP.

SHOP NAME NONE

SIZE J

DWG NO. 28F6223

H 368

LET	ALTERATIONS	DATE	BY

LET	ALTERATIONS	DATE	BY
A	RELOCATED 7/16 H. TO WAS 11/16 (REF) REMOVED 5 RIV 57A, DWG Q5106-10-B TO AC365-1032-B, CHANGE REFERENCES		
B	CANCELLED P.O.		
C	CREATED-ES		
C	ADDED "SIZE" FOR RAYS		

BLKD. WEBBING

28B5580-23R (REF.)

28B5580-10R (REF.)

28B5580-25R (REF.)

28B5580-8R (REF.)

28B5580-18R (REF.)

*#10 (.193) - 1 HOLE LOCATED ON INSTLN. FROM HOLE IN PART.
Q5106-10-8 (1)
AC365-1032 (1)

Q5106-10-8 (2) BOLT
AC365-1032 (2) NUT
AN960M10 (4) SPACERS (IF REQ.)

28F6226-6 (REF)

7 1/4 (A)

SKIN-LINE

TYPICAL FOR DETAILS ATTACHED TO ZEES, EXCEPT AS NOTED * 3/8

28F6227 (REF)

.193

.693

4 3/16 (A)

5 5/8

5 5/8

(A) Q5106-10-8 (3)
AC365-1032 (3)

* CENTER ALL HOLES IN STRINGERS

28B5580-21R (REF.)

VIEW LOOKING AFT, STRBD. SIDE BLKD. #4.0

28F6226 #RADAR RECEIVER SUPPORT (FOR-0 ASSY)
-28F6226-2, (FOR -2 ASSY)
(B) 28F6226-3 (FOR -3 ASSY)

WEB - BLKD. #4.0

STR. #462 (REF.)

STR. #464 (REF.)

STR. #466 (REF.)

STR. #468 (REF.)

STR. #470 (REF.)

STR. #472 (REF.)

STR. #474 (REF.)

STR. #476 (REF.)

11 11/16 (A)

VIEW LOOKING OUTBRD.

℄ BLKD. #4.0

-3	PAV-5A	28F6003	1
-2	PAV-5	28F6003	1
-0	PAV-4	28F6003	1
-0	PAV-3	28F6002	1
-0	PAV-5A	28F6002	1
USE ON	MODEL	PART NO.	QTY

REQUIREMENTS PER AIRPLANE

REPLACES: 6.97 Sq. Ft.

REPLACED BY: PART NO.

DATE OF RELEASE TO PRODUCTION: SCALE 6"=1'0"

STAMP PART NUMBER WHERE SHOWN

C# 13595
C# 91876 "91 ON
CONTRACT # 98176 "1 30
" " # 70476
" " # 77713
" " # 88476

NOTE:
1. CONTRACTOR INSTALLED ON ALL AIRPLANES OF CONTRACT # 88976 & 91876.
2. ON CONTRACT # 70476 (33 AIRPLANES) & # 77713 PARTS ARE TO BE FURNISHED TO NAVY FOR SERVICE INSTALLATION.

PART NO.	STOCK	MATERIAL	SPEC	LET	QTY	LET	QTY	LET	QTY	LET	QTY
A				PARTS LIST PER ASSY.		-0	2	-3	4	-4	6
(A)				Q5106-10-8			6		6		
(A)				AC365-1032			6		6		
				AN960M10			4		4		6

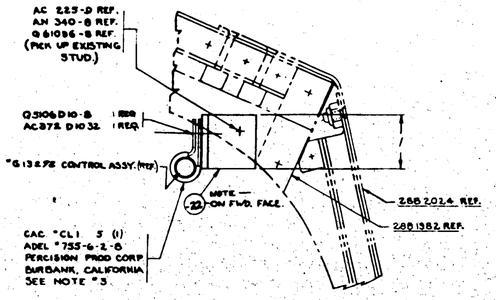
NAVY — HEAT TREAT — FINISH

NAME: INSTALLATION - FURNS. - RADAR REC. SUPPORT

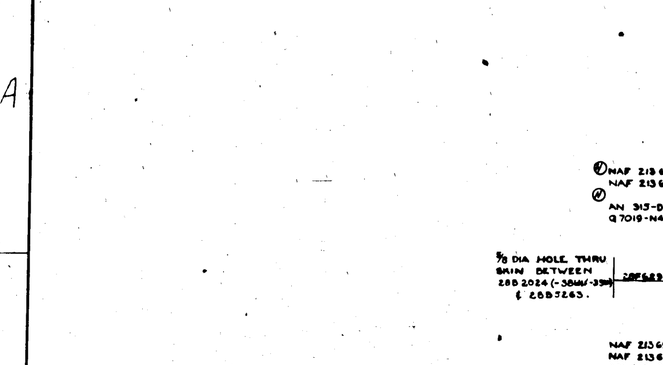
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

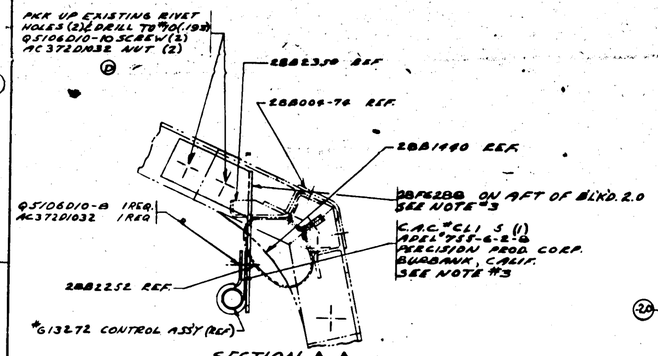
GRP | NAME: NONE | SIZE: J | DWG NO: 28F6228

H 369



SECTION B-B
SCALE 12"=1'0"





SECTION A-A
SCALE 12"=1'0"

FINISH CODE
Z	ANODIC TREATMENT
P	P-7 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

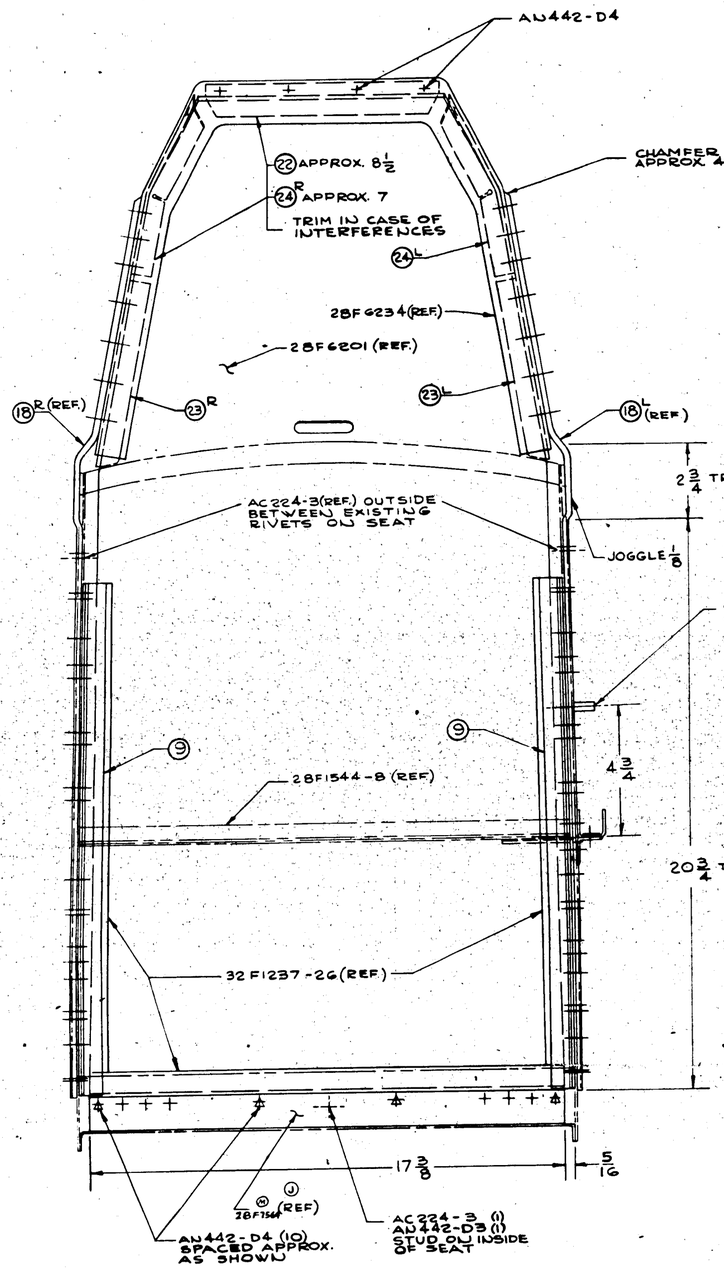
NOTE:

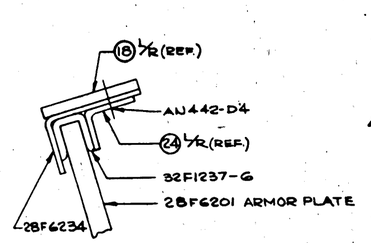
1. PARTS INDICATED ① CONSIST OF — 9308-49-8, Q5106D10-7, AC372D1032
2. PARTS INDICATED ② CONSIST OF — 9308-49-8, Q5106D8-7, AC372D1032
3. INSTALL OF C.A.C. "CL1 5 & 28F6288 (-22) TO BE DETERMINED AFTER CONTROL ASSY "G13063 REF. IS INSTALLED.

LIST	DESCRIPTION	DATE	BY
A	SEE SHT-3 FOR AREA BY AC865-1 (AN834-4D)		
B	ADDED ATTACH TO BKT & PART OF PART	2-1-54	
C	ADDED DRILL & TAP	2-1-54	
D	CHGD QTY & DWG NO. ON ITEM 2 DIA-3 NO WT CHG.	2-15-54	
E	ADDED MAT. SPEC. ATTACHMENT (MS20601-3D) & ID (AN742-4) SPACE FROM CAC "CL1 (U208) NO WT CHG.	2-25-54	
F	CHANGED QTY OF ITEM 2 FROM 1 TO 2 REQ.	3-24-54	
G	CHANGED REQ. OF SECONDARY AREA BY AREA — 10 DEG & AC332-R1632 FROM 5 REQ. TO 25 REQ.	7-14-54	
H	ADDED NOTE 3 & MAT SPEC (AC865-1) TO ATTACHING HDWE	9-28-54	

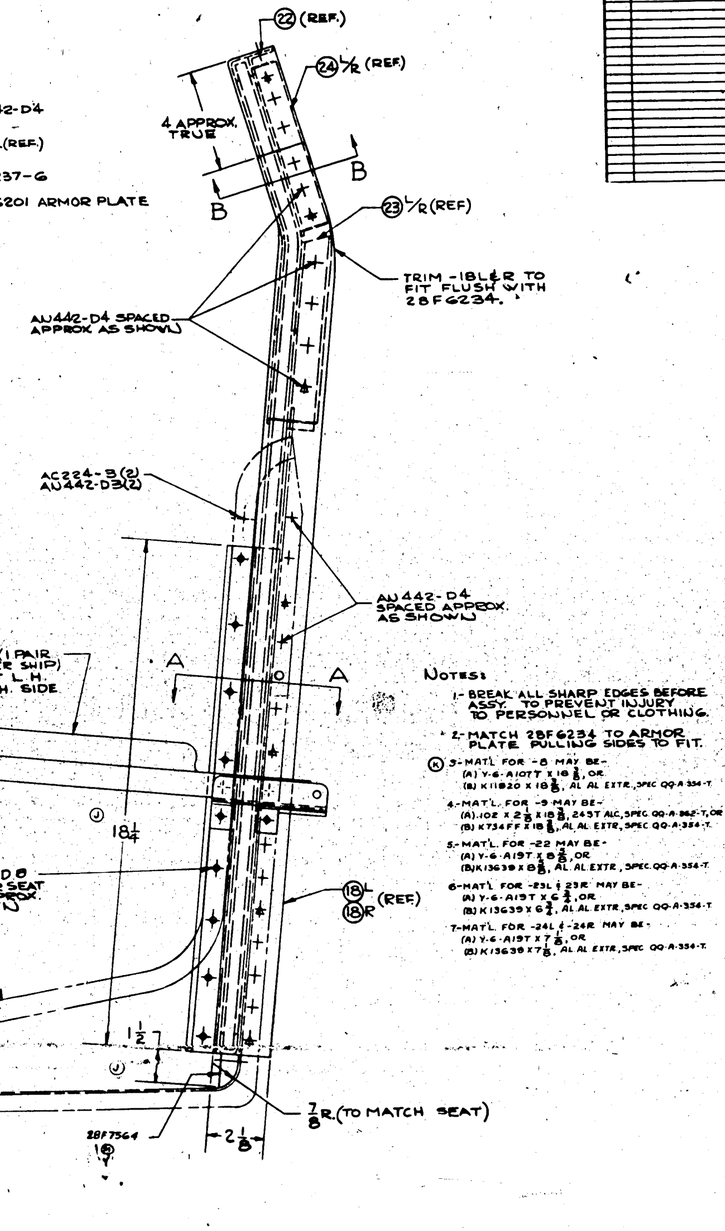
ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	SPEC.
1	1	28F6232	INSTALL-FURNS-ACRO TORQUE WINDSHIELD WIPER		
2	1	28B2024-300	PILOTS ENCLOSURE		
3	1	28B2024	ENCLOSURE		
4	1	28E3773	ELECTRICAL CONDUIT		
5	1	28F6296	WIPER MOTOR, CONVERTER & BRACKET		
6	1	28F6261	WINDSHIELD WIPERS & SPRAY CONTROLS		
7	1	28F6253	WINDSHIELD WIPER		
8	1	28F6213	ALCOHOL TANK & PUMP BRKT		
9	1	28B5268	SPRAY CLEANER & HAND PUMP		
10	1	28B1382			
11	1	28B1490			
12	1	28B2350			
13	1	28B0076			
14	1	28B2252			
15	1	28F6298			
16	1	28F6299			
17	1	28B3263			
18	1	28B1382			
19	1	28B2024			
20	1	28E4001			
21	1	28E1218			
22	1	28F6288			
23	1	C.A.C. "CL1 5			
24	1	C.A.C. PUMP 86-50			
25	1	C.A.C. TA 6-50			
26	1	G13272			
27	1	G13028			
28	1	B-23332			
29	1	Q7019-N41-064			
30	1	AC372D1032			
31	1	Q3106D10-8			
32	1	AC865-1			
33	1	AN742-4D			
34	1	AN834-4D			
35	1	NAF213693-4D			
36	1	NAF213690-4D			
37	1	NAF213695-4D			
38	1	NAF213691-4D			
39	1	NAF213688-4D			
40	1	NAF213707-4D			
41	1	MS20601-3D			
42	1	AN746-4			

| | | |





SECTION B-B
SCALE 12"=1'-0"



NOTES:

1- BREAK ALL SHARP EDGES BEFORE ASSY. TO PREVENT INJURY TO PERSONNEL OR CLOTHING.

2- MATCH 28F6234 TO ARMOR PLATE PULLING SIDES TO FIT.

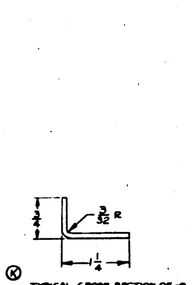
K 3- MAT'L FOR -8 MAY BE-
(A) Y-6-A10TT X 18 3/8, OR
(B) K11820 X 18 3/8, AL AL EXTR., SPEC QQ-A-354-T

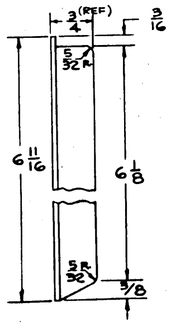
4- MAT'L FOR -9 MAY BE-
(A) .102 X 2 1/2 X 18 3/8, 24ST ALC, SPEC QQ-A-362-T, OR
(B) K734FF X 18 3/8, AL AL EXTR, SPEC QQ-A-354-T.

5- MAT'L FOR -22 MAY BE-
(A) Y-6-A19T X 8 3/8, OR
(B) K13639 X 8 3/8, AL AL EXTR, SPEC QQ-A-354-T

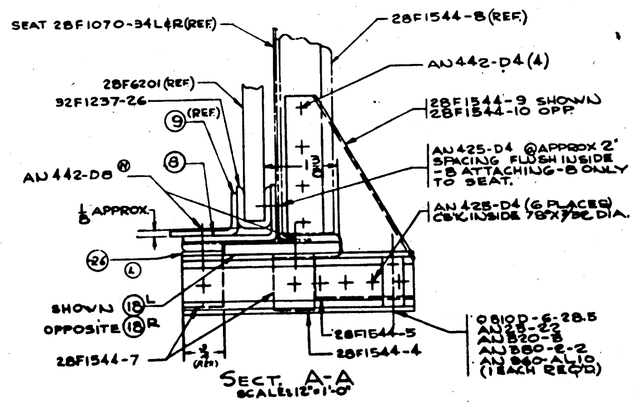
6- MAT'L FOR -23L & 23R MAY BE-
(A) Y-6-A19T X 6 1/2, OR
(B) K13639 X 6 1/2, AL AL EXTR, SPEC QQ-A-354-T

7- MAT'L FOR -24L & -24R MAY BE-
(A) Y-6-A19T X 7 1/8, OR
(B) K13639 X 7 1/8, AL AL EXTR, SPEC QQ-A-354-T

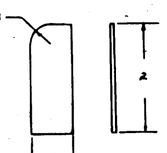




DETAIL OF -23L -23R OPPOSITE
SCALE: 12"=1'-0"



SECT. A-A
SCALE: 12"=1'-0"



DETAIL OF -26
SCALE 12"=1'-0"
L

H 371

NO. (3) 464
(N-36 § 0.943-46-20)
M.C.R. 153 § 6N
CONT. # 77719 § # 88476
MCR # 135

MAT	ALTERATION	DATE	BY	MAT	ALTERATION	DATE	BY
	ANG HZ ADA NO WT. CHG			G	REVISED PER SHIP PLANE NO WT. CHG	5-3-43	
				J	AN FACE -8 W/32-8, DIM. 1 1/8 WAS 1 1/16, DIM. 18 1/8 WAS 18 1/8, DIM. 8 1/16 REQ'D 8 1/2 WAS DIM. 8 1/16 REQ'D 8 1/2 WAS K1582 X 18 1/2 WAS K1582 X 18 1/8, K1734FF X 18 1/8 WAS K1734FF X 18 1/8 -23 WAS -6 PER 3-M-1443 T, WT. INCR. 7-23-43		
				K	18 1/8 FOR -8 REPLACED "K1582 X 18 1/8 W/ 8 HOLES" WITH "NOTED" FOR -8 BUMPER 2 1/2 X 18 1/8 R.H. AL. ALLOY T" WITH NOTED FOR -23L REPLACED "K1582 X 18 1/8 W/ 8 HOLES" FOR -23R, REPLACED "K1582 X 18 1/8 R.H. AL. ALLOY T" WITH "NOTED" FOR -24L REPLACED "K1582 X 7 1/8 R.H. AL. ALLOY T" WITH "NOTED" ON FACE ADDED TYPICAL CROSS-SECTION ON -8 § RATES # 8 TO # INCL. WT. INCR. 7-16	10-5-43	
				L	-24L ORIG. 7/8 X 8 1/8 R. AL. CLAD 2024-T3 (0.064-0.075 ANY WID. ANOD. CAL. (0.1) SEA-T" R ASS'L. ADDED DIM. 3/16 (REF.) & DETAIL -24L WT. CHG. NEG.	4-14-44	
				M	IN 8 INTERFACE PCS. -18 9 1/8 X 18 1/8 AL ALLOY SHT. SPEC. 6 AM 3 T WITH TAB TABS ---> AN AM. -138	4-19-44	
				N	AN 442 D8 (REPEAT) WAS		

AN442-D8							
AN442-D4							
AN442-D3							
AN425-D4							
AC377-1032							
AC224-3							
AN320-7-2							
AN380-2							
AN470-3							
AN525-22							
C0810-AL10							
C0810D-6-28.5							
AN840-AL10							
28F7564	(M) (SEE NOTE 8)						
28F1544-8							
28F1544-9							
28F1544-10							
28F1544-4							
28F1544-5							
28F1544-7							
28F1070-34L							
28F1070-34R							
28F6201	ARMOR PLATE						
-2A	24ST 0.128 CLAD	2024-T					
-2B	NOTED	NOTED	NOTED				
-3	NOTED	NOTED	NOTED				
-8	NOTED	NOTED	NOTED				
-9	NOTED	NOTED	NOTED				
-22	NOTED	NOTED	NOTED				
-23L	NOTED	NOTED	NOTED				
-23R	NOTED	NOTED	NOTED				
-24L	NOTED	NOTED	NOTED				
-24R	NOTED	NOTED	NOTED				
PART NO.	STOCK MATERIAL	SPEC.	LAY OUT	LAY OUT	LAY OUT	LAY OUT	LAY OUT
	PARTS LIST PER ASSY.		QUAN.	QUAN.	QUAN.	QUAN.	QUAN.
			-2	-8	-9	-14	-9

DRAWN					
TRACED					
STRESS					
WEIGHTS					
CHECKED					
APPROVED					
ENGR. APPROVAL DATE					
SUPV. APPROVAL DATE					

ZF-28-010

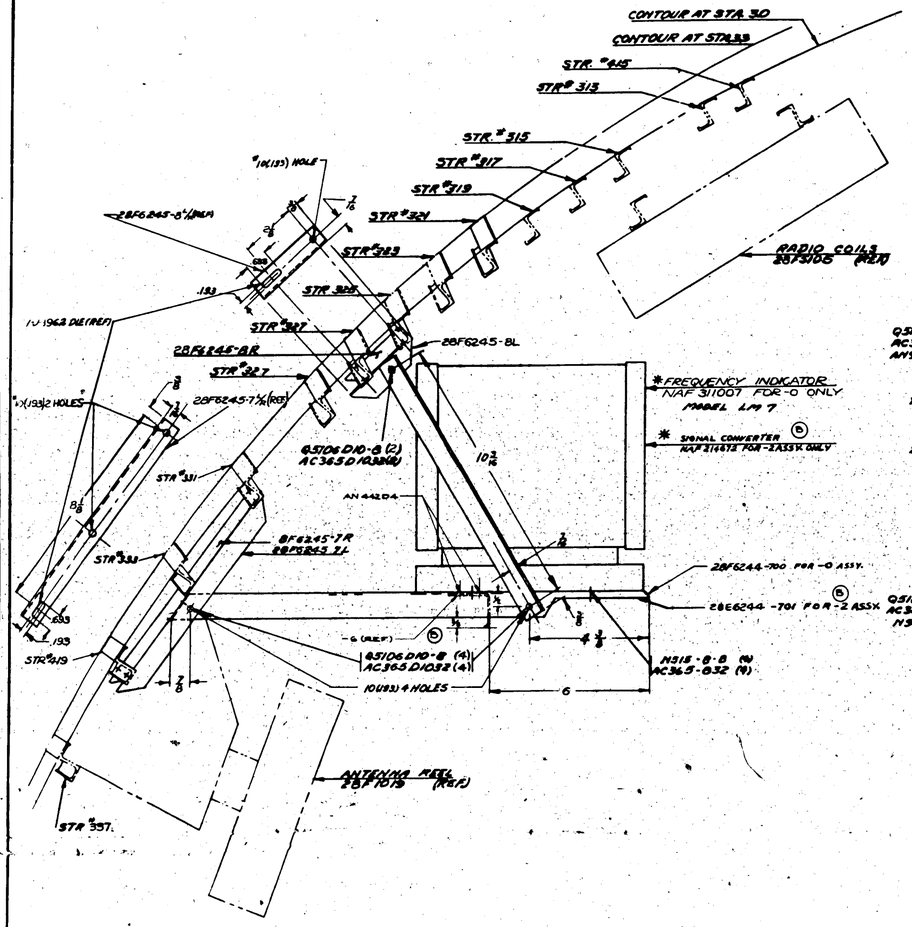
NAME INSTALL.- PILOT'S & CO-PILOT'S ARMOR PLATE

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J

28F6233

R

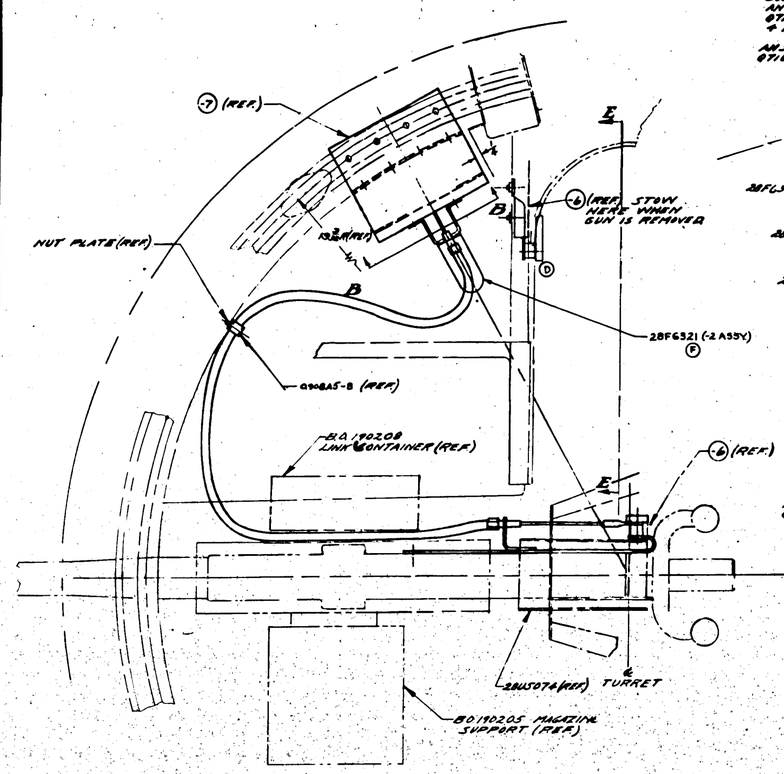


ECO	MARK	CHANGE	QTY	DATE	AUTHORIZATION	CHECK	DWG
E.O. A 39419	A						
E.O. 58986	B						
E.O. 26184	C						
	D						

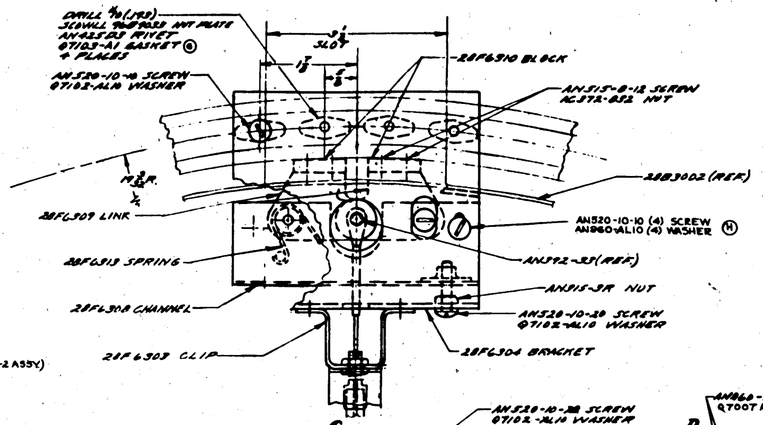
FINISH CODE	
Z	ANODIC TREATMENT
P	PAS PRIMER
ZP	ZINC CHROMATE PRIMER
C	CADMIUM PLATE
GP	GREEN PRIMER

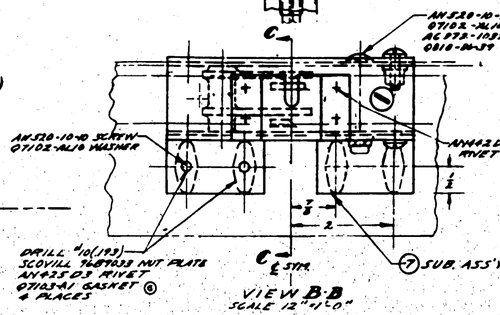
* GOVT. FURN. EQUIP.

| | | | | | |

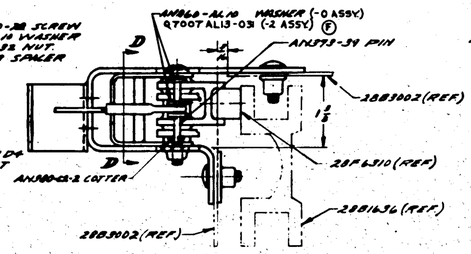


PLAN VIEW

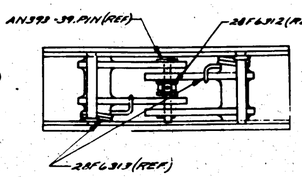




VIEW B-B
SCALE 12"=1'-0"

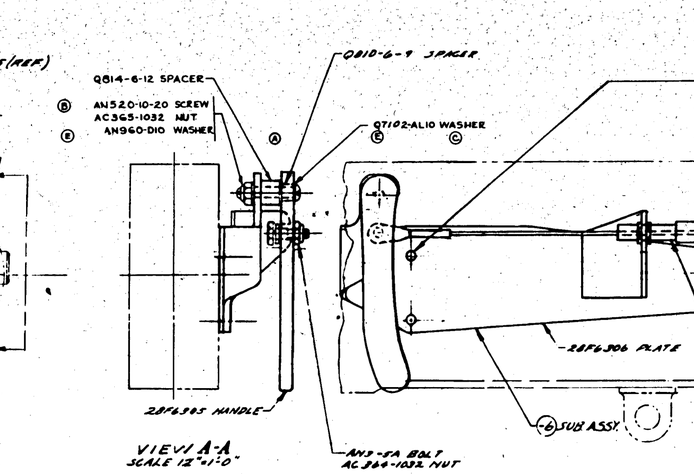


VIEW C-C



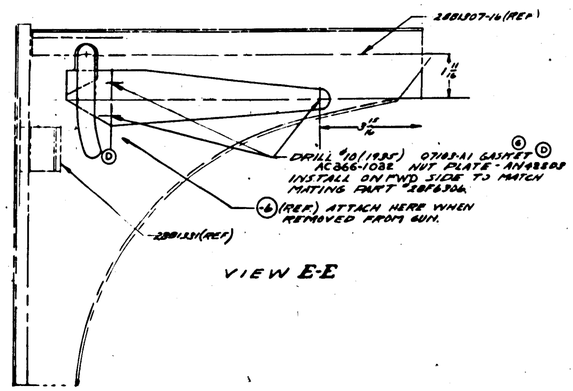
SECT. D-D

LIST	ALTERATIONS	DATE	BY
M	ADDED AN515-10-16 SCREW AND AN960-10 WASHER (-2 ASSY.)		
A	MADE A-A SHOWN TO SUIT (-2 ASSY.)		
	ADDED AN515-8-16 SCR. AN960-10 WASH. (-2 ASSY.)		
	ADDED AN4-18A SCR. AN960-416L WASH. (-2 ASSY.)		
B	CHANGED AN515-10-16 TO AN515-10-18		
C	CORRECTION POSITION OF VIEW A-A ON SHT 2		
	ADDED A DIM. C TO VIEW A-A	9-10-46	R.S.
D	CHANGED PART NO. 28F6308 TO SHOW -1 (FOR) STOWED ON AFT SIDE OF BLKD. IN VIEW E-E. CHANGED BODY TO READ: PRI:---FSC5340 PT No. CHANGED ANG31-64 TO AN931-64. ADDED AN960-416L WASH. AT A-A. REVISED NOTES C & MK --- PLATE AN931-64---MATERIAL 12345678---PRI: ANKO NOT UNLESS OTHERWISE SPECIFIED ADD WT CHG.	9-21-46	WILLIS
E	ON VIEW A-A REVISED POSITION OF SCREW. ADD WT. CHG.	9-27-46	WILLIS
F	CREATED -2 ASSY. REVISED REVISE PLATE. ADD WT. CHG. HEAD-12	10-1-46	WILLIS
G	Q7103A1(12) WAS Q7103P1(12) ADD WT CHG	1-21-47	WILLIS



LEFT HAND VIEW

VIEW A-A
SCALE 12"=1'-0"



VIEW E-E

FINISH CODE

	TOUCH UP
	STENCIL
	ALUMILITE PLATE

C8197S
C7771S
C8847S
C70496
31 SHIPS

Bur. Aero. Change - PBY-5 78
" " " PBM-5 23
" " " PBM-5A 10

PART NO.	SPEC.	MATERIAL	SPEC.	LIST M	LIST A	LIST B	LIST C	LIST D	LIST E
		PARTS LIST FOR ASSY.		-0	-2	-3	-4	-5	
AN225-06									
AN960-416L									
AN931-416									
AN455-D3									
AN815-8R					2				
AC372-832					2				
AN960-416L				1	1				
AN992-3R					2				
AN520-10-10					2				
AN960-10					2				
28F6303					2				
28F6304					2				
28F6305					2				
28F6306					2				
28F6308					2				
28F6309					2				
28F6310					2				
28F6312					2				
SUB ASS'Y -7									
Q7103A1(2)									
Q814-6-12									
Q810-6-9									
Q7102-AL10									
AC366-1032									
AN960-AL10									
AN960-D10									
28F6311									
28F6313									
SUB ASS'Y -6									
AC455D3									
AC372D3									
Q7103A1-6									
Q7103 A1									
AN960AL10									
AN960-416L									
AC366-1032									
28F6311-2									
AN931-3R									
AN931-3									
AN960-D10									
28F6311									
28F6312									
-2 SUB ASSY.									
-1 SUB ASS'Y.									

-2	PBY-5	28F6321	1		
-2	PBY-5A	28F6321	1		
-2	PBM-5	28F6321	1		
	PBM-5A	28F6321	1	AC455-D3	2
	PBY-5	28F6321	1	Q7103A1-6	2
	PBY-5A	28F6321	1	AN931-3R	2
	PBM-5	28F6321	1	Q7103A1-6-031	2
	PBM-5A	28F6321	1	28F6311	1

LIST	MODEL	BODY ASSY	QTY		
			1.70 Lbs.		

DESIGNATED FOR ASSEMBLY AT

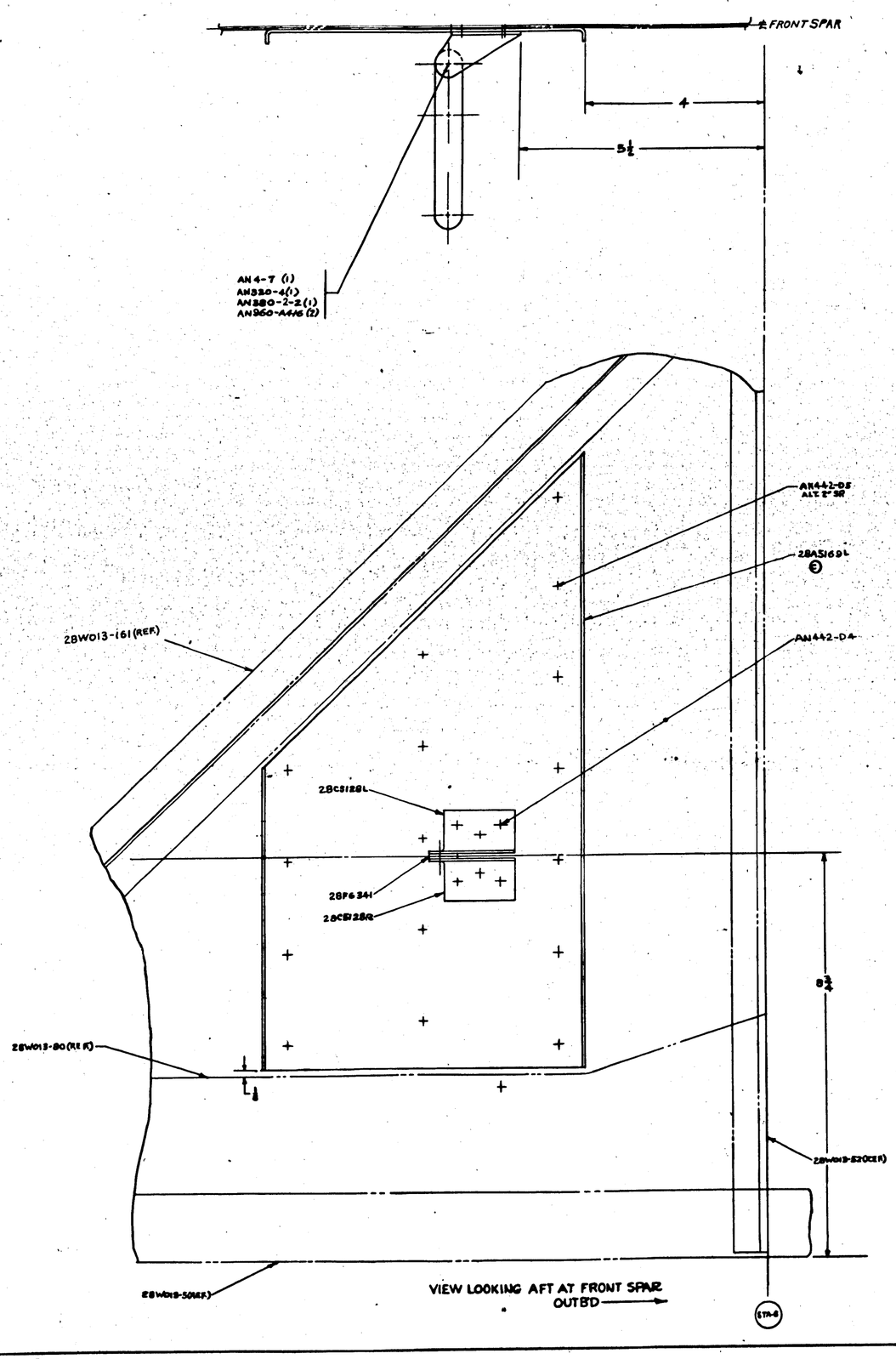
DESIGNATED FOR INSTALLATION

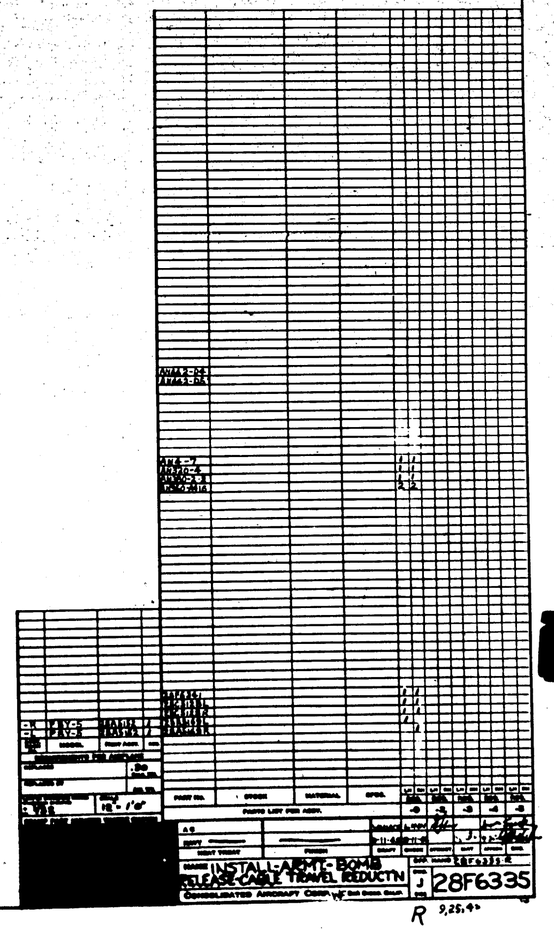
AC			
PAINT NONE	TOUCH UP AD		
HEAT TREAT	FINISH		

| | | | | | | | | |

LET	ALTERATION	DATE	BY
A	INITIAL RELEASE		
B	ADD 1 PC 28F6118-2 SOCKET, 1 PC AN 320-10-6 SCREW, 1 PC AC 372-1032 NUT, 2 PC Q 7102-AL10 WASHER, 1 PC 28F6118-1 BOW GUN CAM. ADD 1 PC 28F6118-3 SOCKET, 1 PC 28F6118-4 BRACKET, 1 PC 28F6118-5 BRACKET, 1 PC AN 320-10-8 SCREW, 1 PC AC 372-1032 NUT, 2 PC Q 7102-AL10 WASHER, 1 PC 28F6118-6 BRACKET, 1 PC 28F6118-7 BRACKET, 1 PC AN 320-10-6 SCREW, 1 PC AC 372-1032 NUT, 2 PC Q 7102-AL10 WASHER, 1 PC 28F6118-8 BRACKET, 1 PC 28F6118-9 BRACKET, 1 PC AN 320-10-8 SCREW, 1 PC AC 372-1032 NUT, 2 PC Q 7102-AL10 WASHER, 1 PC 28F6118-10 SUB. ASS'Y, 1 PC 28F6118-11 BRACKET, 1 PC 28F6118-12 BRACKET, 1 PC AN 320-10-6 SCREW, 1 PC AC 372-1032 NUT, 2 PC Q 7102-AL10 WASHER, 1 PC 28F6118-13 BRACKET, 1 PC AN 320-10-6 SCREW, 1 PC AC 372-1032 NUT, 2 PC Q 7102-AL10 WASHER, 1 PC 28F6118-14 BRACKET, 1 PC AN 320-10-6 SCREW, 1 PC AC 372-1032 NUT, 2 PC Q 7102-AL10 WASHER, 1 PC

LTR	ALTERATION	DATE	BY
A	ADD AN4-7 (1) AN320-4(1) AN960-416 (2) AN380-2-2(1) AR442-D5 ALT 2" SR (1) 28A51691 (1) 28W013-161 (REF) AN442-D4 (1) 28C5128L (1) 28F6341 (1) 28C5128R (1) 28W013-80 (REF) 28W013-520 (REF) 28W013-501 (REF)	9-25-43	R.O.A. 64265
B	ADD 28A51691 (1) AR442-D5 ALT 2" SR (1) AN442-D4 (1) AN4-7 (1) AN320-4 (1) AN960-416 (2) AN380-2-2 (1) 28W013-161 (REF) 28W013-80 (REF) 28W013-520 (REF) 28W013-501 (REF)	9-25-43	R.O.A. 64300 SHT. 6M
C	ADD 28A51691 (1) AR442-D5 ALT 2" SR (1) AN442-D4 (1) AN4-7 (1) AN320-4 (1) AN960-416 (2) AN380-2-2 (1) 28W013-161 (REF) 28W013-80 (REF) 28W013-520 (REF) 28W013-501 (REF)	9-25-43	R.O.A. 74691





INSTALL ARMT - BOMB RELEASE CABLE TRAVEL REDUCTN

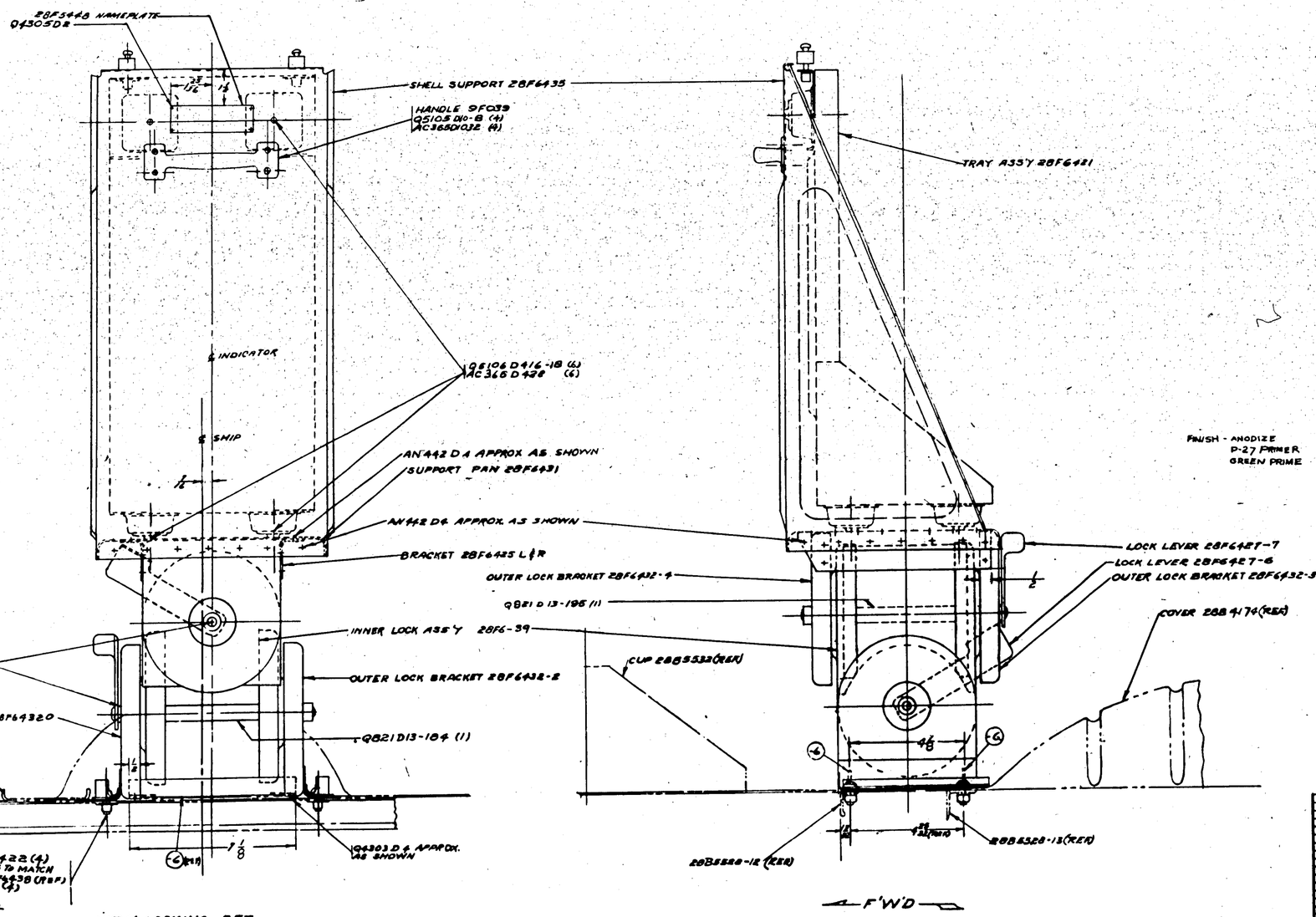
CONSOLIDATED AIRCRAFT CORP.

28F6335

H 375

R 9.25.43

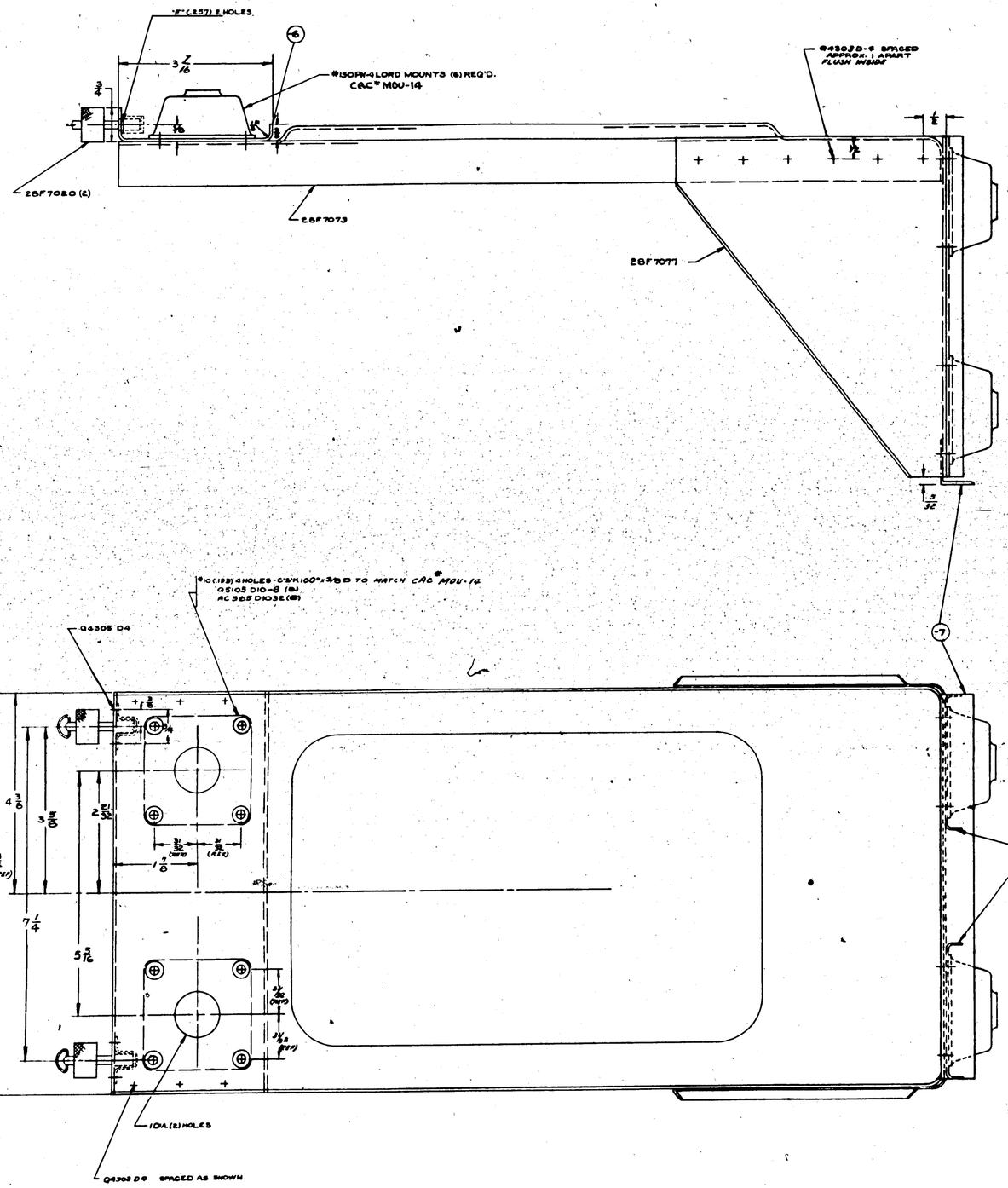
LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY

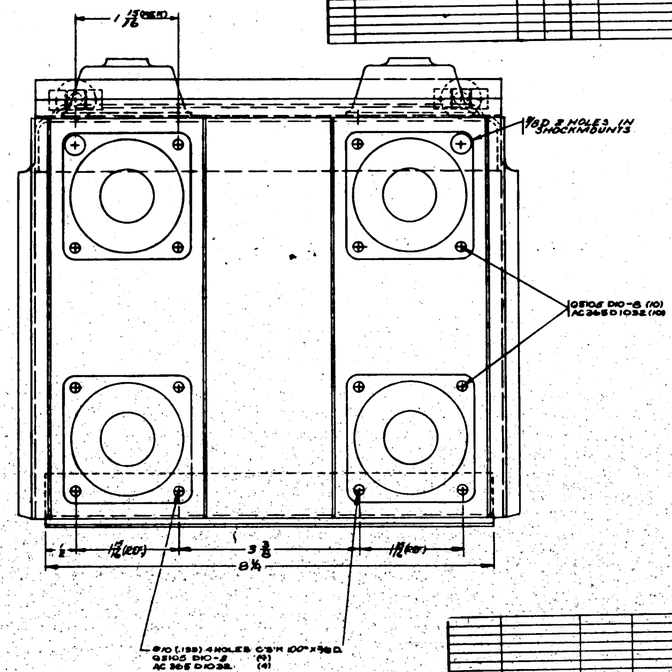


FINISH - ANODIZE
P-27 PRIMER
GREEN PRIME

| | | | | | | |

MAT	ALTERATION	DATE	BY	MAT	ALTERATION	DATE	BY





FINISH - ANODIZE
P-27 PRIMER
GREEN PRIME

PART NO.	SPACER	MATERIAL	SPEC.	LAST NO. -0	LAST NO. -3	LAST NO. -5	LAST NO. -6
	PARTS LIST PER ASSY.			REQ'D.	REQ'D.	REQ'D.	REQ'D.

PAY-5A RANGE			
MATERIAL	THICKNESS	WEIGHT	
		2.70	
DEVELOPED LENGTH	DEVELOPED WIDTH	NO. OF PIECES	
SCALE	12"=1'-0"		

NEXT ASSY	28-48 ORV-6617		
NEXT HIGHER ASSY	FINISH		

NAME TRAY ASSY-FURN-PILOTS VISUAL INDICATOR

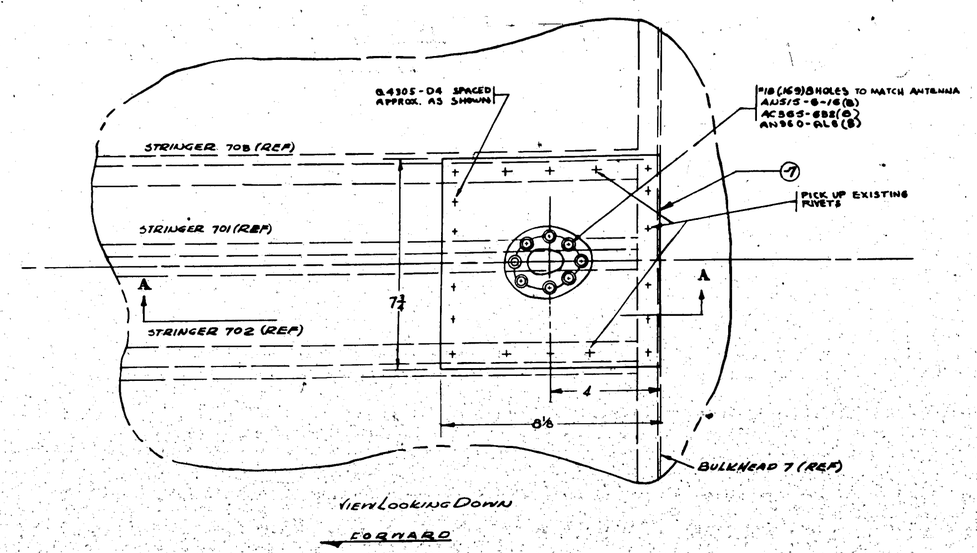
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

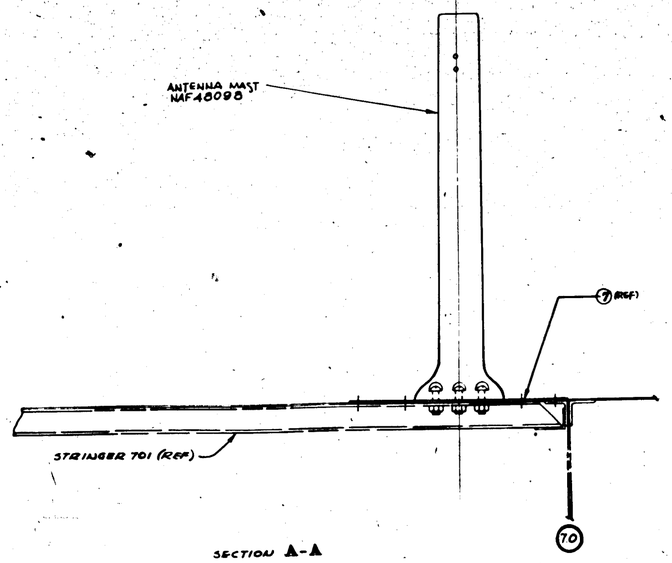
SIZE J | DWG. NO. 28F6421

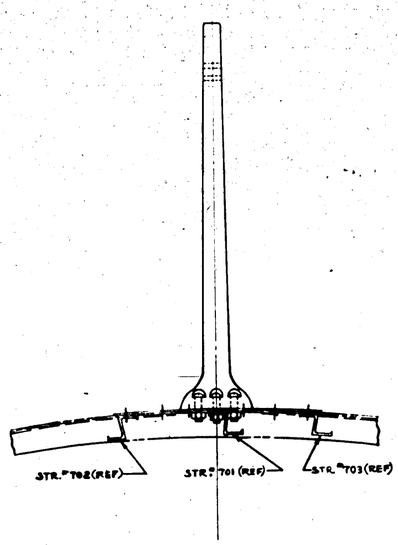
H 377

R

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY







FINISH CODE	
Z	ANODIC TREATMENT
P	P-77 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

C88476 (53 ON)
C91876 (91 ON)
CONT 88476 (53 ON)
CONT 91876 (91 ON)

NOTE:-
ANT. MAST MAY BE PURCHASED FROM ERIE RESISTOR Co.

ANT MAST NAF48058

PART NO.	OTHER	MATERIAL	SPEC.	LET	-0	-1	-2	-3	-4	-5
	PARTS LIST FOR ASSY.									

LET	ALTERATION	DATE	BY
A	ANPRC-84(V)1(A) AN/PRC-84(V)1 CHGS AS BY C-9838 (FAI WEP) ACC & SOFT 24 HAVE QUICK CHG REQ'S)	4-3-84	LLV
B	1/4 DIA RIVETS WAS 3/16 DIA	10-29-84	RMH
C	W/ ADDITION OF INTERFACE PARTS		
D	CADATED - 2 ASS'Y. TO PALE ADDED 28PT5074 - 2 ASS'Y - LIMITED TO A - 0 ASS'Y. IN REF. BUT ADDED -A, -PAY-5A AND -5B (1) LIMITED TO MAST S.E.D. LOCATIONS "C" DEL. ALL BUT LIP TO NO. 332-10" DIA "C" DEL. NICKEL BASE & PAY-5A W/A AREA ADD. W.T. = 1.78 POUNDS ASSY. DEL. DIA. ADDED WT. .77 POUNDS ASSY	6-1-84	

A

28F6454 -0 ASS'Y

28F7596 -2 ASS'Y

3 1/2 APPROX.

(B) 1/4 DIA. HOLE IN SKIN TO MATCH HOLE IN ANT. SUPPORT

NEOPRENE GASKET 28F6585 SEAL WITH ZINC CHROMATE PASTE

28T5002-40 (REF.)

(A) AN 526-M3M-7 (16)
AN960-3AL (16)
AC 572-9838 (16)

28T5059 (REF.)

28T5060 (REF.)

28T5062-6 (REF.)

℄ PIN

FWD.

A

SECT "A-A"

(C)

MCR 232-D	-2	PAY-5A	28F6002	
C. MONITOR 68 OPTIONS D	-0	PAY-5A	28F6454	ZINC CHROMATE PASTE
C 6077 (ISI BOX)	-0	PAY-5A	28F6000	
C 9878 (WEP ONLY)	-0	PAY-5A	28F6001	
C 8878 (WEP ONLY)	-0	PAY-5A	28F6454	

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ. -0	RH REQ. -0	LH REQ. -2	RH REQ. -3	LH REQ. -4	RH REQ. -5
AN526-3838-7				16	16				
AN 960-AB L				16	16				
AC 572-3838				16	16				
28F6454				1	1				
28F6455						1	1		
28F6456								1	1
28T5074				2	2				

PARTS LIST FOR ASSY.

A.G.				
NAVY NONE	NONE			
HEAT TREAT	FINISH			

SCALE 6"=1'-0"

NAME INSTALLATION-FURN-ABK
ANT. MAST & SUPPORT

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | 28F6450

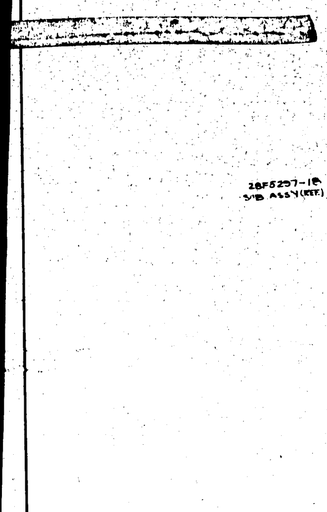
H 379

R

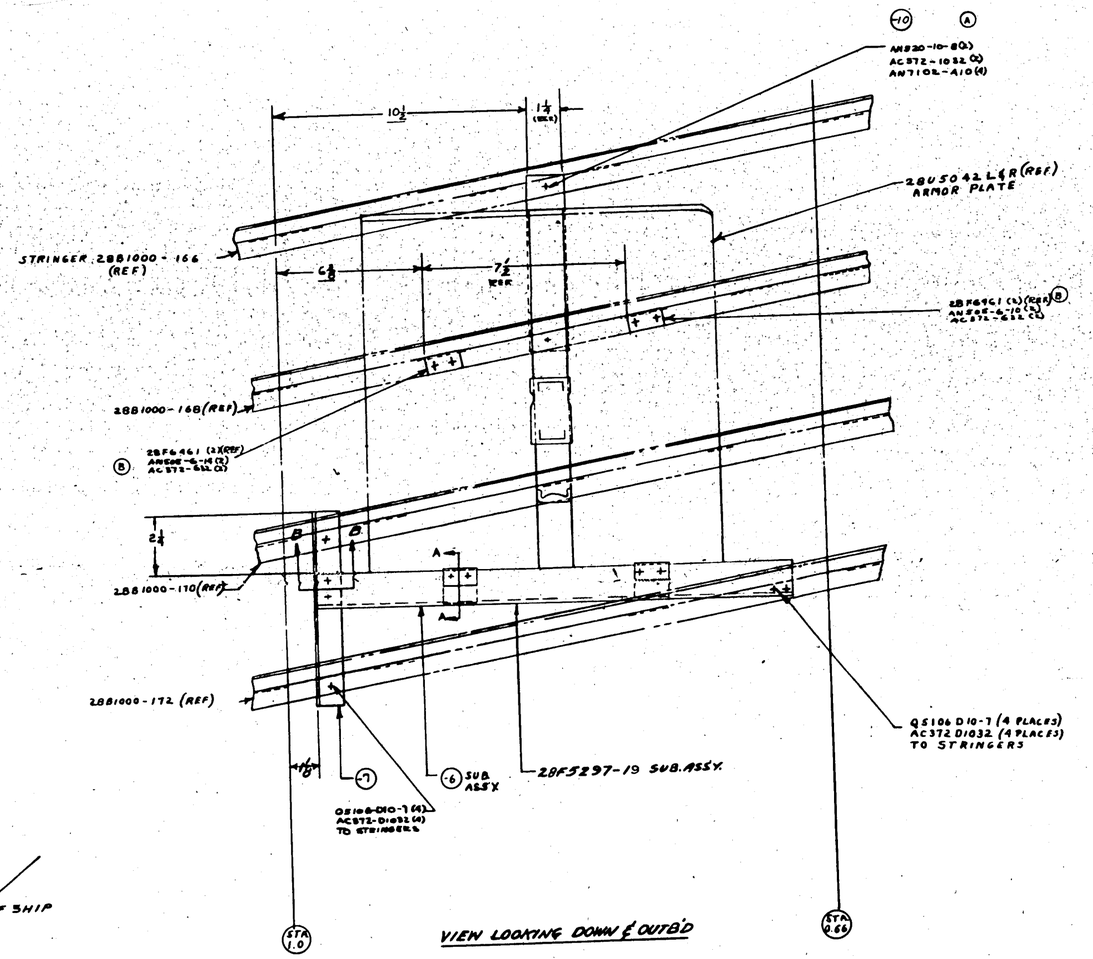
MKT	ALTERATIONS	DATE	BY
A	PER A.R. 87-19 (CHG'D PART NO'S)		
	ETCHING - REVISED NUMBERING		
	DRAWING AREA - REVISED LOCATIONS		
	(D) ON REVISED INSTALL. ASSY. (-5)		
	(E) WAS (-6) SUB ASSY. - NOW (-6) SUB ASSY. (-6) WAS (-7) SUB ASSY. - NOW (-7)		
	(F) ADDED NOTE		
B	ADDED (-6) (2X) & (-7) (4X)		
	ADDED (-10) & (-11)		
	REVISED ARMOR PLATE LOCATIONS		
C	ADDED FOR -10, -11 & -12		
	REVISED PER A.R. 87-19, SHT. 2		
	NOTE "V-A-837" TO BE USED ON -10 & -11		

E.O. B 85771 A

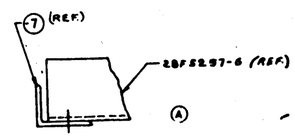
E.O. B 85888



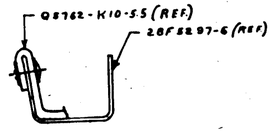
PORT SIDE
VIEW LOOKING FORWARD



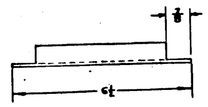
VIEW LOOKING DOWN & OUTBD



SECTION "B-B"
SCALE 12"=1'-0"



SECTION "A-A"
SCALE 12"=1'-0"



DETAIL OF -10
SCALE 6"=1'-0"

NX513595
C91876 @ 91 ON

| | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	[illegible]						
B	[illegible]						
C	[illegible]						
D	[illegible]						
E	[illegible]						
F	[illegible]						
G	[illegible]						
H	PUNCHED HOLE WAS [illegible]						
J	[illegible]						
K	[illegible]						
L	[illegible]						
M	ADDED NOTE "8 REF. (136) HOLES" [illegible]						

ECO "B 22747

DRILL 7/32 - 2 HOLES

DRILL 7/32

USE PUNCH W1299 FOR THIS HOLE PUNCH THRU-82-7.

J16 DRILL 7/32 - 6 HOLES - EQUAL DISTANCE APART - ±.010 BETWEEN CENTERS.

11 1/4 ±.010 BOLT DIA.

DRILL 8/32 (3 HOLES)

32F710-7

3 1/2 DIA THRU -6 & -7

DRILL 1/4 - 4 HOLES. (1 IN EACH CORNER OF -7 ONLY FOR DRAINAGE)

AN 960-416

28F6597 - BRACKETS - 2 REQUIRED - RIVET TO -6

6. MUST BE CONCENTRIC WITH HOLE *

AN 442-D4

AN 960-416L

28F7184

SECTION B-B

SECTION C-C

29(136) 2 HOLES THRU-7 TO MATCH 32F710-7 (REF.) Q30339A-6-8(2) AN 960-416L(2) (M)

32F710-7 (REF.)

SPOTWELD TO -6

SECTION A-A

-NOTES-

1. ALL BEND RADII [illegible]
2. SPOTWELD APPROX. [illegible] APART AS SHOWN.
3. JIG DRILL -6 & -7 PLATES AND ATTACH 32F710-7 TO -7 BEFORE SPOTWELDING. WHILE SPOTWELDING LOCATE -6 ON -7 WITH AT LEAST 4 PINS THRU DRILLED HOLES TO INSURE HOLE ALIGNMENT.

* SPOTWELDING SYMBOL
THIS SYMBOL INDICATES SPOTWELDING RIVETS ARE NOT INDICATED ON THIS DRAWING BY SYMBOLS

FINIS CODE	
Z	ANODIC TREATMENT
P	P-7 PRIMER
AP	ALUMINIZED PAINT
C	CADMIUM PL.

PART NO.	STOCK	MATERIAL	SPEC	-0	-2	-3	-4
AN442-D4							
AN960-416L							
Q30339A-6-8							
28F6597							
32F710-7							
Ref 28F6518	MACHINE (INCR 5.8 lb)						
28F6518-7	.040 / 20 x 36	Alclad	4TAR Code A				
28F6518-6	.032 / 20 x 36	Alclad	4TAR Code A				

28F6518-7	.040 / 20 x 36	Alclad	4TAR Code A	1			
28F6518-6	.032 / 20 x 36	Alclad	4TAR Code A	1			

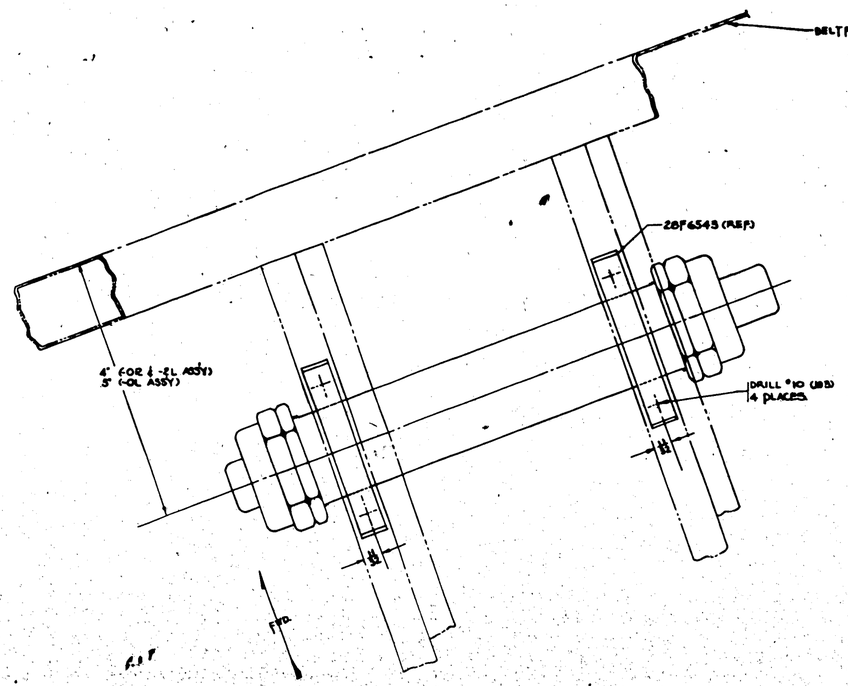
A6		2 PAP	
MAT'L - 7-3M-3A-3L		FINISH	
HEAT TREAT			

NAME PLATFORM-HYDRAULIC UNITS -HYDRAULIC SYSTEM-

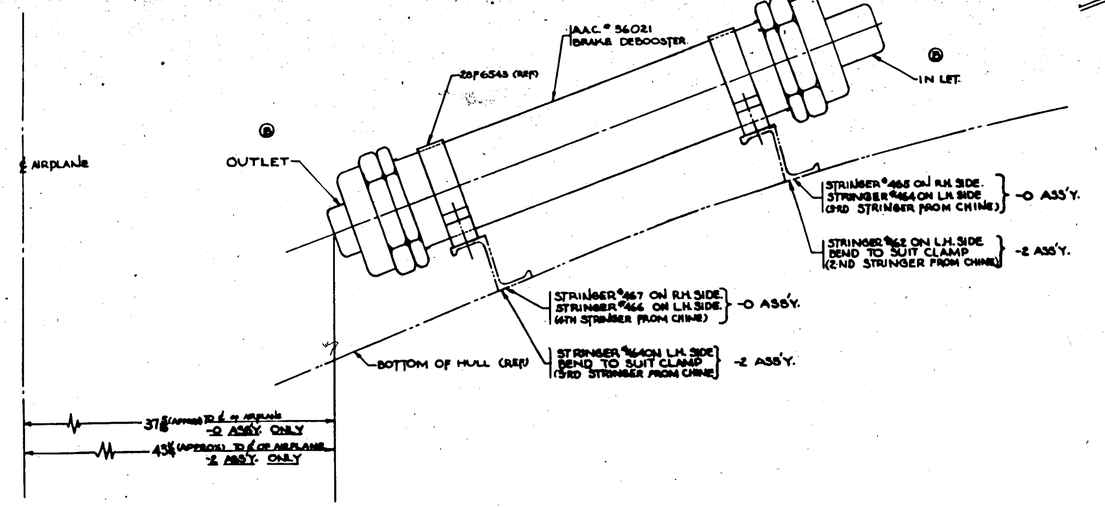
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG NO. 28F6518 | REV R

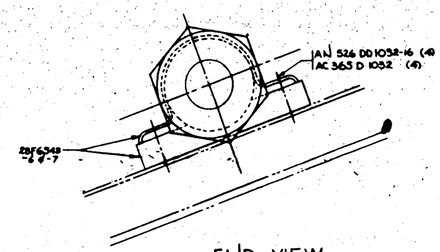
H-381



PLAN VIEW.



VIEW FWD.-



END VIEW.

NOTES -:

BEND STRINGERS IN AREA OF CLAMPS TO PROVIDE MOUNTING NORMAL TO ℄ OF VALVE.

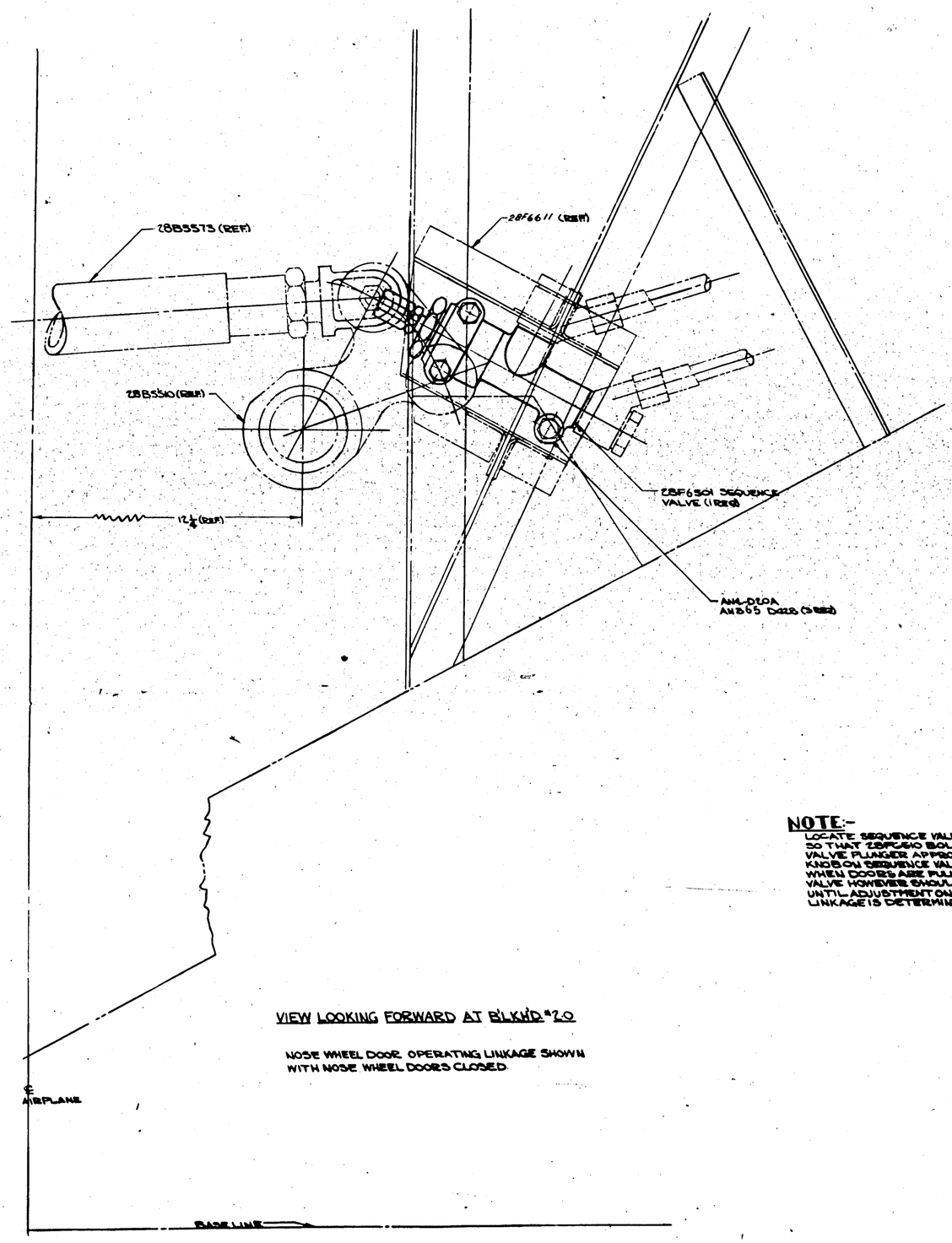
A.A.C. # 56021 BRAKE DEBOOSTER MAY BE PURCHASED FROM AIRCRAFT ACCESSORIES CORPORATION, GLENDALE, CALIF.

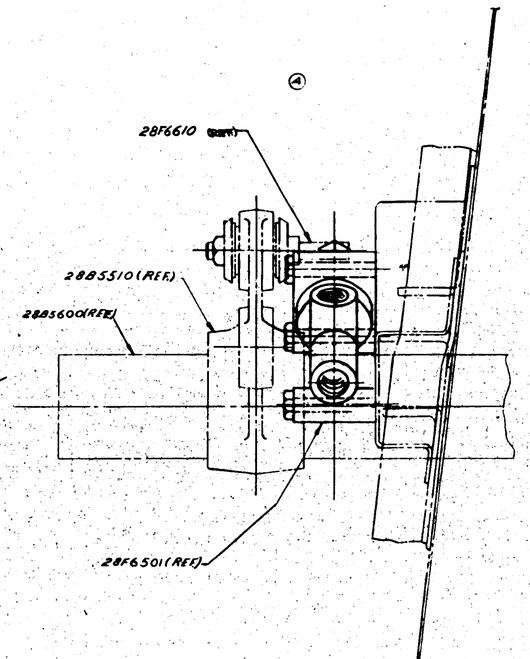
LET	ALTERATION	DATE	BY
A	Changes -1 & -3 Assys. Arms to Clear Aileron Control Rod.		
B	REVISED PORTION OF A.A.C. 56021 BRAKE DEBOOSTER NO WT. CHG.		

LET	ALTERATION	DATE	BY

| | | |

LET.	ALTERATION	DATE	BY	LET.	ALTERATION	DATE	BY
J	Changed Parts List (REF) 28BB510 to 28BB5510 per Eng. Order 11705 Rev.	11-8-43	BAX				





NOTE:-
LOCATE SEQUENCE VALVE ON 28FC611 BRACKET SO THAT 28FC660 BOLT MOVES SEQUENCE VALVE PLUNGER APPROX. ⅛" WITH ADJUSTING KNOB ON SEQUENCE VALVE IN NEUTRAL POSITION, WHEN DOORS ARE FULLY CLOSED. SEQUENCE VALVE HOWEVER SHOULD NOT BE LOCATED UNTIL ADJUSTMENT ON 28BB5573 ARM & DOOR LINKAGE IS DETERMINED.

VIEW LOOKING FORWARD AT BLKHD. #20

NOSE WHEEL DOOR OPERATING LINKAGE SHOWN WITH NOSE WHEEL DOORS CLOSED.

℄ AIRPLANE

BASE LINE

PART No.	STOCK	MATERIAL	SPEC.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.
				-0	-2	-3	-4	-5			

PARTS LIST PER ASSY.

DWG. NO.	NOMIE	NOMIE	DRAWN
HEAT TREAT	FINISH		

INSTALL. - SEQ. VALVE NOSE WHEEL DOOR LOCK-HYD SYS.

CONSOLIDATED AIRCRAFT CORP.

SIZE J | 28F6612

H 383

LTR	ALTERATION	DATE	BY
A	PER PAGE OF ORIG. CK'D W/ CHG. NOTE. CORRECTED FOR TOOL CLEARANCE. ADDED ATTACHMENT OF AN NO. 3-4 SCREWS TO Q5748 KI-34 USING NUT PLATES. NOTE ADDED TO C.L. ATTACHING ANN. 3-4 SCREWS. ADDED (A) C.L. ATTACHING ANN. 3-4 SCREWS. ADDED (6) SUB ASS'Y.	2-2-61	EAA/RIZZ
A	(A) ADDED ANN. 510-D10-8 W/ AC 365-D1032 (4) 28FZ200-16 ADDED AT STA. 41 & 42 ADDED 28FZ200-8 REIN. STRIP SEWED ON Q5748 KI-34 WHERE IT PASSES OVER TOP OF STOVE. ADDED Q5799-8 AN 442-D6 AT STA. 41 & 42 ADDED Q5708 KI-8 ADDED Q5799-8 AN 510-D10-8 W/ AC 365-D1032 (4) AT STA. 42 ADDED Q5748 KI-34 ADDED 28FZ200-16 ADDED STRINGER #569 ADDED STRINGER #571 ADDED STRINGER #573 ADDED *10 (.193) DRILL C'SK 82° x .375 TOP SIDE ONLY AN 510-D10-10 AC 365-D1032 Q810-D7-8 3 PLACES DELETED SYMETRICAL NOTE ADDED TO C.L.	2-3-61	EAA/RIZZ

(6) SUB ASS'Y.

Q5748 KI-34

28FZ200-8
REIN. STRIP SEWED ON Q5748 KI- WHERE IT PASSES OVER TOP OF STOVE.

Q5799-8
AN 442-D6

STA. 41

STA. 42

FWD

NOTE:
INSTALL SYMETRICAL ABOUT ℄ AIRPLANE.

Q5708 KI-8

(A) Q5799-8
AN510-D10-8 W
AC365-D1032 (4)

28FZ200-16

STRINGER #569

STRINGER #571

STRINGER #573

*10 (.193) DRILL
C'SK 82° x .375
TOP SIDE ONLY
AN 510-D10-10
AC 365-D1032
Q810-D7-8
3 PLACES

VIEW OF STB. SIDE
LOOKING FWD.

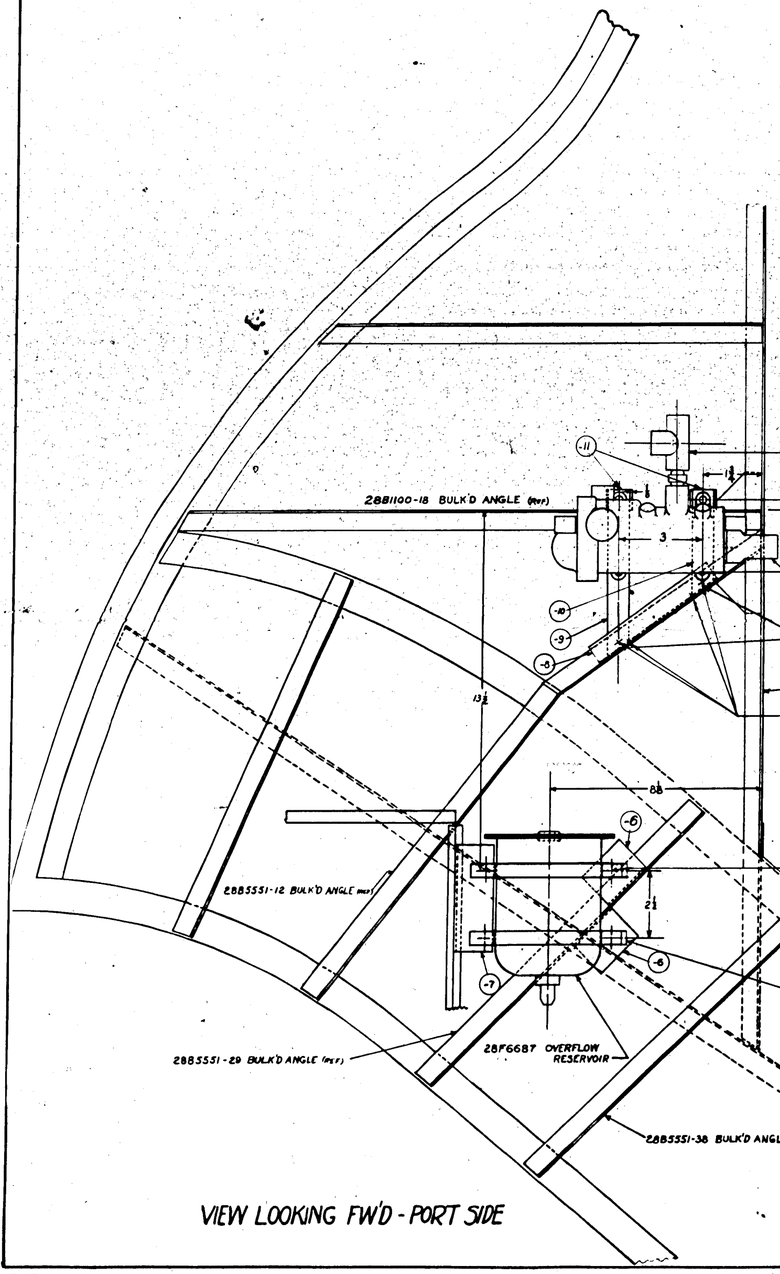
C70496-7713
#68978-79312

Q5748 KI-34
28FZ200-8
AN442-6 RIVS
Sub ASSY
Q810-D7-8
Q5748-8
Q5708 KI-8
28FZ200-16
AN366-832-4
AC365-D1032
AN470-AD3-6
AN442-D6

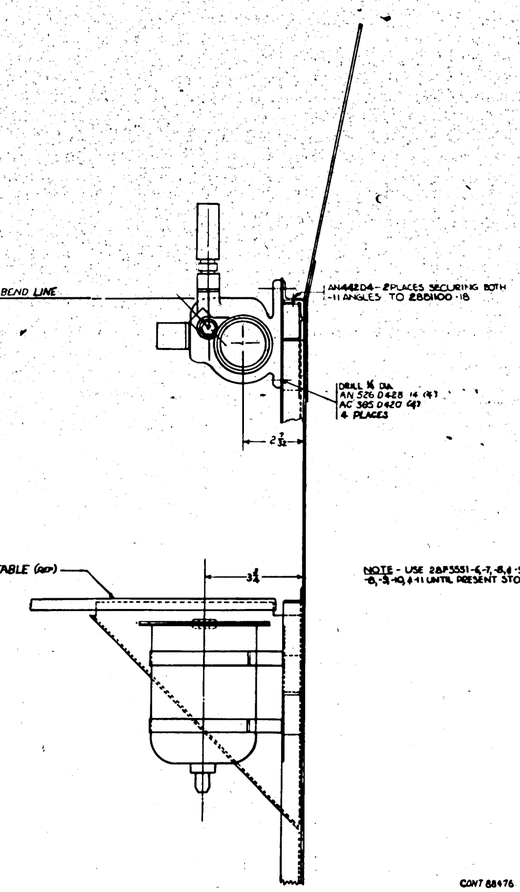
PART NO.	STOCK	MATERIAL	SPEC	-0	-2	-3	-4	-6
PARTS LIST PER ASSY.				1	1	1	1	1

| | | | |

LET	ALTERATIONS	DATE	BY
A	RELOCATED OVERFLOW RESERVOIR - REMOVED PART OF BRACKETS FROM RIB - REAR TO BE CALLED OUT ON DETAIL	8-21-52	BRM
B	ANGLE 28B5551-32 WAS ADDED (MOUNTING)	8-21-52	BRM



VIEW LOOKING FW'D - PORT SIDE



VIEW LOOKING OUTB'D - PORT SIDE

NOTE - USE 28B5551-6,-7,-8,&-9, IN PLACE OF 28F6669 -6,-9,-10, & -11 UNTIL PRESENT STOCK IS EXHAUSTED

CONT 88476

FINISH CODE
Z ANODIC TREATMENT
P P-37 PRIMER
AP ALUMINIZED PRIMER
C CADMIUM PLATE

Ⓑ

PART No.	STOCK	MATERIAL	SPEC.	LET	NO. REQ'D	LET	NO. REQ'D	LET	NO. REQ'D	LET	NO. REQ'D	LET	NO. REQ'D
	PARTS LIST PER ASSY.				-0		-2		-3		-4		-5
-11	K4901 - 1 1/8	ALCLAD											
-10	K4901 - 4 1/16	ALCLAD											
-9	K4901 - 6 1/4	ALCLAD											
-8	K4901 - 5 3/4	ALCLAD											
-7	V4887 - 2 1/2	ALCLAD											
-6	V4887 - 2 1/2	ALCLAD											

-C	AS ASSEMBLED	AN4501	1
-D	PART OF	AN4501	1
LAST USED	MODEL	Next Assy	QTY

DISPOSITION OF AIRPLANES
REPLACED
REPLACED BY
LAST IN ORDERING BLOCK
Finish Part Numbers Starting Decimal

SCALE 6" = 1'-0"

A-C		REED	
QUANTITY NONE	-6,-9,-10,-11, & Z	8-8-52	
MATERIAL HEAT TREAT	FINISH	DRAWN	CHECKED

NAME INSTALLN OVERFLOW RESERVOIR & SUMP PUMP SPECIAL SYSTEM

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

OPP. HAND

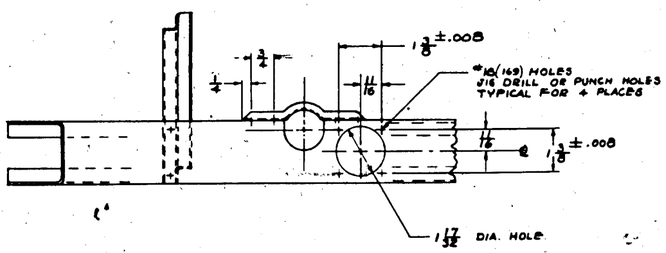
SIZE J

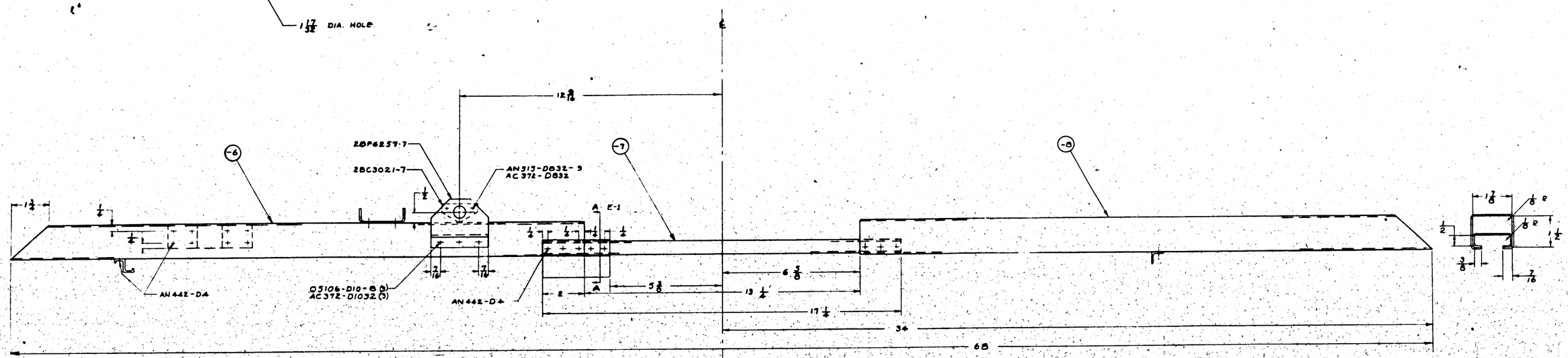
28F6669

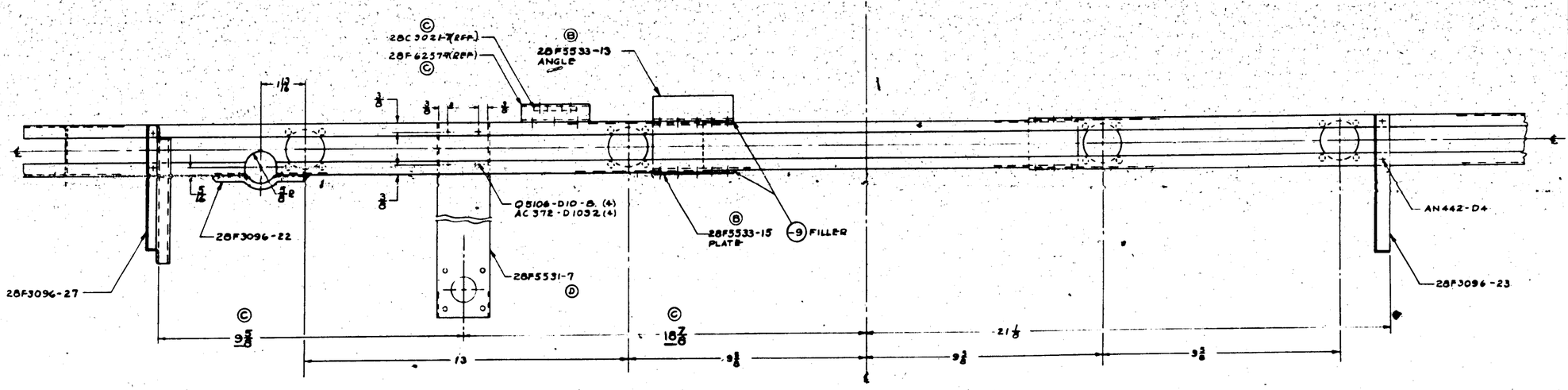
R

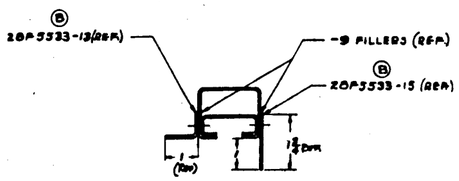
H 385

LET	ALTERATION	DATE	BY
A	CHANGED B CHAN OF MATERIAL FROM 24ST TO 3S & ADDED MAT Per W.O.		
B	28F6533-15 was 28F5533-13 28F6532-15 was 28F5532-13		
C	18ZA DIM WAS 16 W. F 9 DIM WAS 12 1/4 (P-3) 28C3021-7 was 28C3021 28F6527-7 was 28F6527 NO WT CHANGE.		
D	28F5531-7 was 28F5531-0 (ECC 408 (2)) (WT. CHG. PER)		









SECTION A-A.
B-3

FINISH CODE	
Z	ANODIC TREATMENT
P	P-7 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

DRAWING RUSH RELEASED
1-8-42

AN313-D832-9		2	2
Q5106-D10-8		7	7
AC372-D1032		7	7
AC372-D832		2	2
AN442-D4			
28F6257-7		1	1
28F5533-15		1	1
28F5533-13		1	1
28F5531-7	(CHG'D TO 28F5531-0)	1	1
28F3096-27		1	1
28F3096-23		1	1
28F3096-22		1	1
28C3021-7		1	1

NO.	MODEL	ITEM NO.
1	PBY-5	28F6254
2	PBY-5	28F6254
0	PBY-5A	28F6254

PART NO.	STOCK	MATERIAL	SPEC	LT	RH	LT	RH	LT	RH	LT	RH
				2	2	2	2	2	2	2	2
-3	.040 1/4 x 3/4	ALC 2237	AN455 Comp A	1	-						
-6	.040 1/4 x 2 1/4	ALC 2219	AN455 Comp A	1	1						
-7	.064 1/4 x 1 1/4	ALC 2219	AN455 Comp A	1	1						
-8	.064 1/4 x 2 1/4	ALC 2219	AN455 Comp A	1	1						

PARTS LIST PER ASSY.

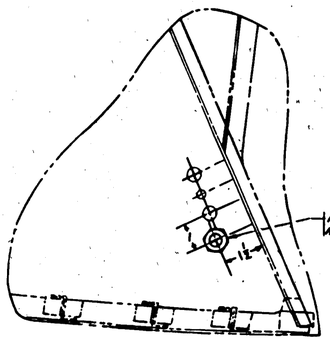
SCALE	12"=1'-0"
STAMP PART NUMBER UNDER DRAWING	

CONTRACT # 91876 SA 955
CONTRACT # 89476 SA 959

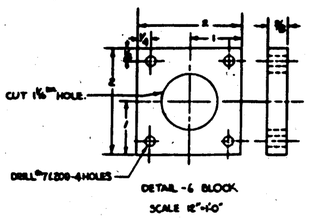
A-S							
NEXT ASSY	ER-53 (1)	2-P-2 Assy					
NEXT HIGHER		FINISH		DRAFT			

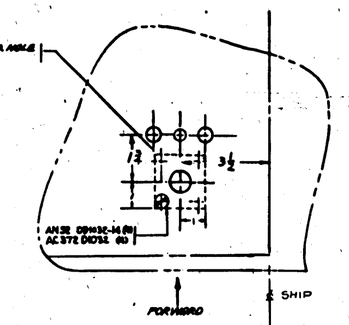
NAME	BEAM-PURNS-PILOTS INSTRUMENT PANEL SUPPORT	SIZE	J
	CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.	DWG NO.	28F6678

H 386



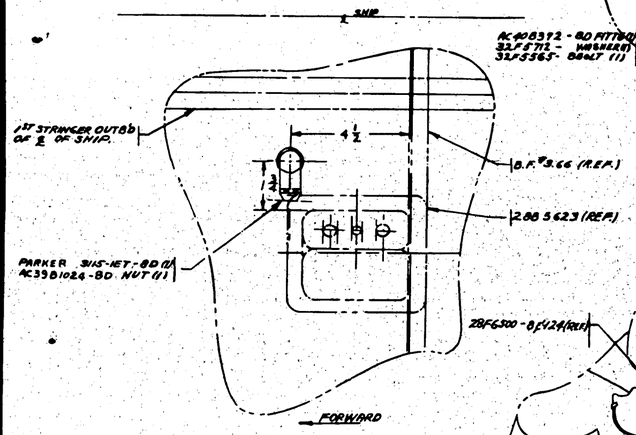
SECTION E-E R.H. WING
LOOKING OUTB'D
6"=1'-0"



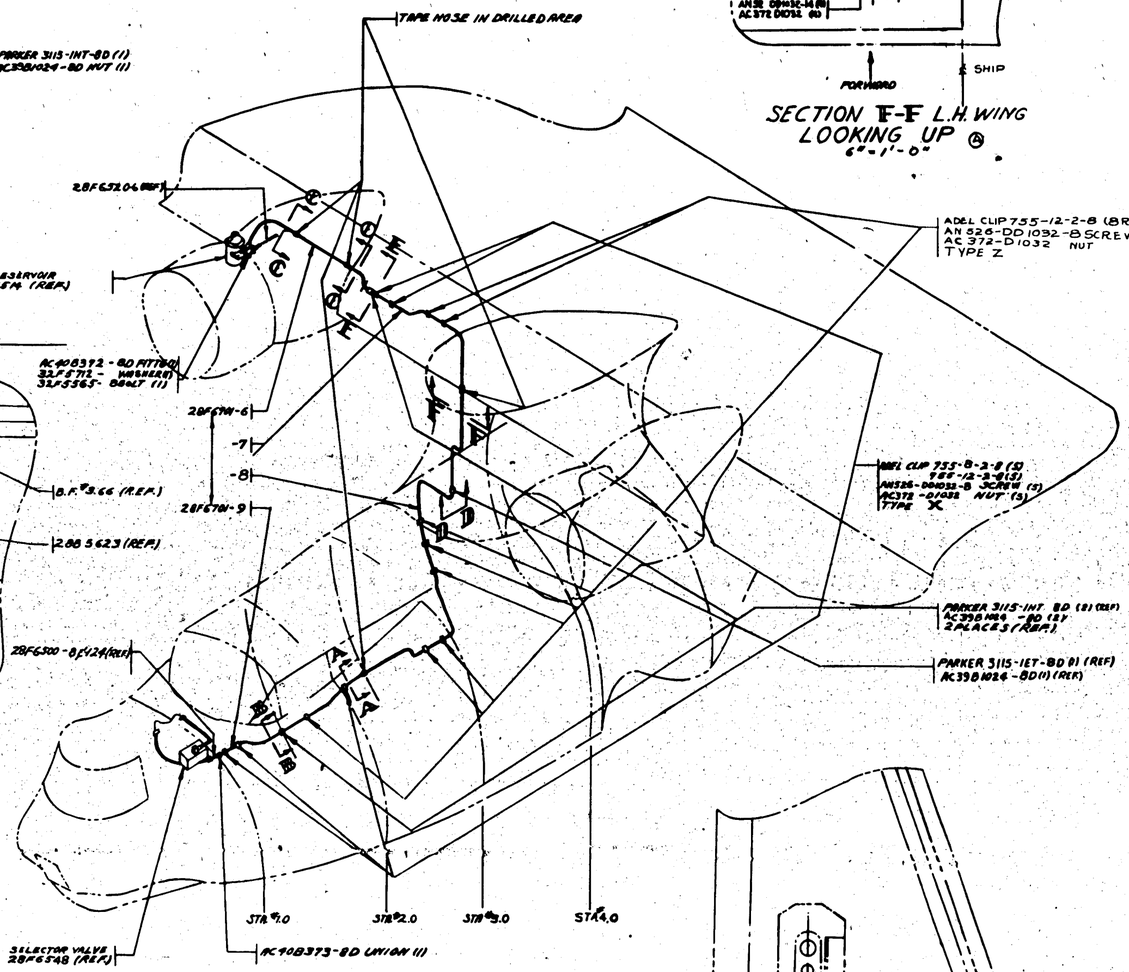


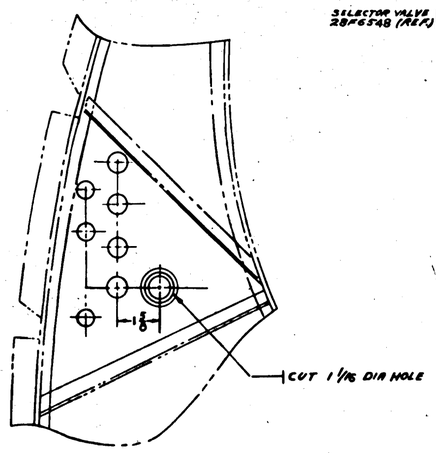
SECTION F-F L.H. WING
LOOKING UP Ⓐ
6"=1'-0"

LTR	DESCRIPTION	DATE	BY	LTR	DESCRIPTION	DATE	BY
				A	SECTION D-D & F-F (LOOKING UP) WAS LOOKING OUTBOARD		
					SECTION C-C INBD VIEW OPPOSITE WAS OPPOSITE HAND		
					INBD VIEW IDENTICAL		
					ADDED -6 ATTACHING PARTS		
					REMOVED 28-FAMP REQTS		
					LIMITED PBY-5A REQTS		

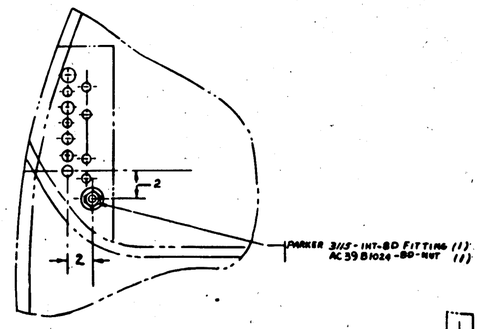


SECTION D-D STR'B'D SIDE
LOOKING UP Ⓐ
6"=1'-0"

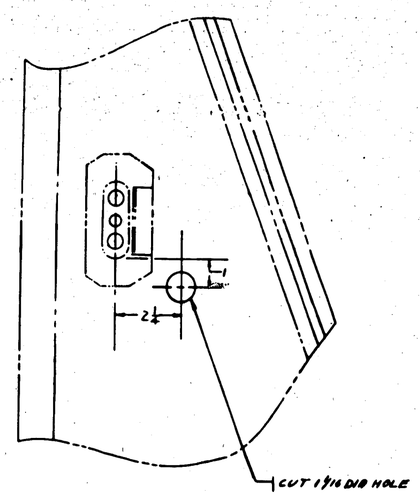




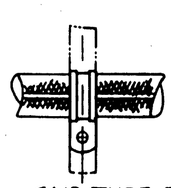
SECTION A-A BL'K'D #3
R.H. LOOK'G AFT
6"=1'-0"



SECTION B-B BL'K'D #2
R.H. LOOK'G AFT.
3"=1'-0"

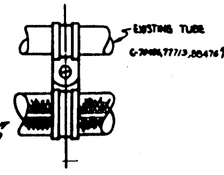


SECTION C-C R.H. NACELLE Ⓐ
LOOK'G OUTBD - INBD VIEW OPPOSITE
6"=1'-0"



CLIP TYPE Z
12"=1'-0"

THESE CLIPS ARE CALLED OUT ABOVE AS DESIGNATED



CLIP TYPE X
12"=1'-0"

ALL HOLES SHOWN IN SECTIONAL VIEWS ON THIS DWG ARE REFERENCE HOLES FOR REAM TO TUBES IN THE HYDRAULIC SYSTEM AS IT EXISTED BEFORE ADDITION OF RETURN LINE SHOWN ON THIS DWG.

REMARK -22 TUBE ON AIRPLANES THAT DO NOT HAVE SPERRY SYSTEM F. -12 TUBE ON AIRPLANES INCORPORATING SPERRY SYSTEM. ATTACH HOSE TO -8 TUBE ON AIRPLANES WITHOUT SPERRY SYSTEM F. -12 TUBE ON AIRPLANES WITH SPERRY SYSTEM BY PASSING AN AC408373-8D COUPLING AS SHOWN. CAP FITTING AT FILTER WITH A PARKER 8HHT-O-CAP FITTING

| | | | | |

LET	ALTERATIONS	DATE	BY
A	DEF-STD W/A CHANGED FROM F-1 TO F-2		
B	CHANGED QTY OF SEALS FROM 6 TO 4		

E.O. A 54870

LET	ALTERATIONS	DATE	BY

NOTE: EACH TUBE NO. 15 AN ASSEM WHICH INCLUDES 2 NUTS (AC811-8T-8) & 2 SLEEVES (AC811-T-8C3) Ⓐ
CAP BLANK OUTLET AT FILTER WITH A PARKER ®8 FNT-D —— CAC® FIT 108-62.

PARKER 3115-NT-8D (2)
AC39B1024-8D NUT (1)

SECTION E-E R.H. WING
LOOKING OUTB'D
6"-1'-0"

PARKER 3115-NT-8D (2)
AC39B1024-8D NUT (1)

SECTION F-F L.H WING
LOOKING UP
6"-1'-0"

AC40 8832-8D FITTING
32 FITTD-8 WASHER (2) Ⓑ
32 FSHD-8 BOLT (1)

HYDR. RESERVOIR
28F6814 (REF)

28F6530- (REF)

ADEL CLIP 755-8-2-8 (10)
AN526-D8D32-8 SCREW (10)
AC372-D832 NUT (10)
TYPE 'Z'

PARKER 3115-8ET-8D (1) (REF)
AC39B1024-8D (1) (REF)

ADEL CLIP 755-8-2-8 (10)
AN526-D8D32-8 SCREW (8)
AC372-D1032 NUT (10)
TYPE 'X' 5 PLACES

AC811 NT-8D UNION (8)

1ST STRINGER OUTB'D OF ℄ OF SHIP

B.F 4366 (REF)

28B3623 (REF)

PARKER 3115-8ET-8D (1)
AC39B1024-8D NUT (1)

℄ SHIP

FORWARD

SECTION D-D STR'BD SIDE
LOOKING UP
6"-1'-0"

28F6530-104 (REF)

STA. "1.0 STA. "2.0 STA. "3.0 STA. "4.0

SELECTOR VALVE
28F6565 (REF)

28F6637-8 (2)
AC39B1024-8D NUT (4)

SECTION C-C R.H. NACELLE
LOOK'G OUTB'D - INB'D VIEW OPPOSITE
6"-1'-0"

28B300-102 (REF)

28B300-101 (REF)

28F6637-8 (1)
AC39B1024-8D NUT (2)

SECTION A-A BULK'D #3
R.H. LOOK'G AFT.
6"-1'-0"

28B462-03 (REF)

28B462-04 (REF)

28F6637-8 (1)
AC39B1024-8D NUT (2)

SECTION B-B - BULKH'D 2
R.H. LOOK'G AFT.
3"-1'-0"

THESE CLIPS ARE CALLED OUT ABOVE AS DESIGNATED

CLIP TYPE Z
2"-1'-0"

EXISTING TUBE

SHIP #83 ON C-88476

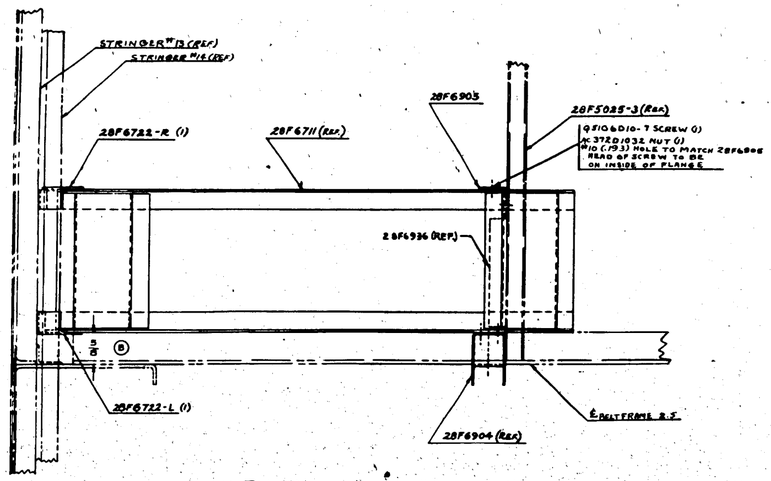
CLIP TYPE X

PARKER ® FNT-D CAC® FIT 108-62

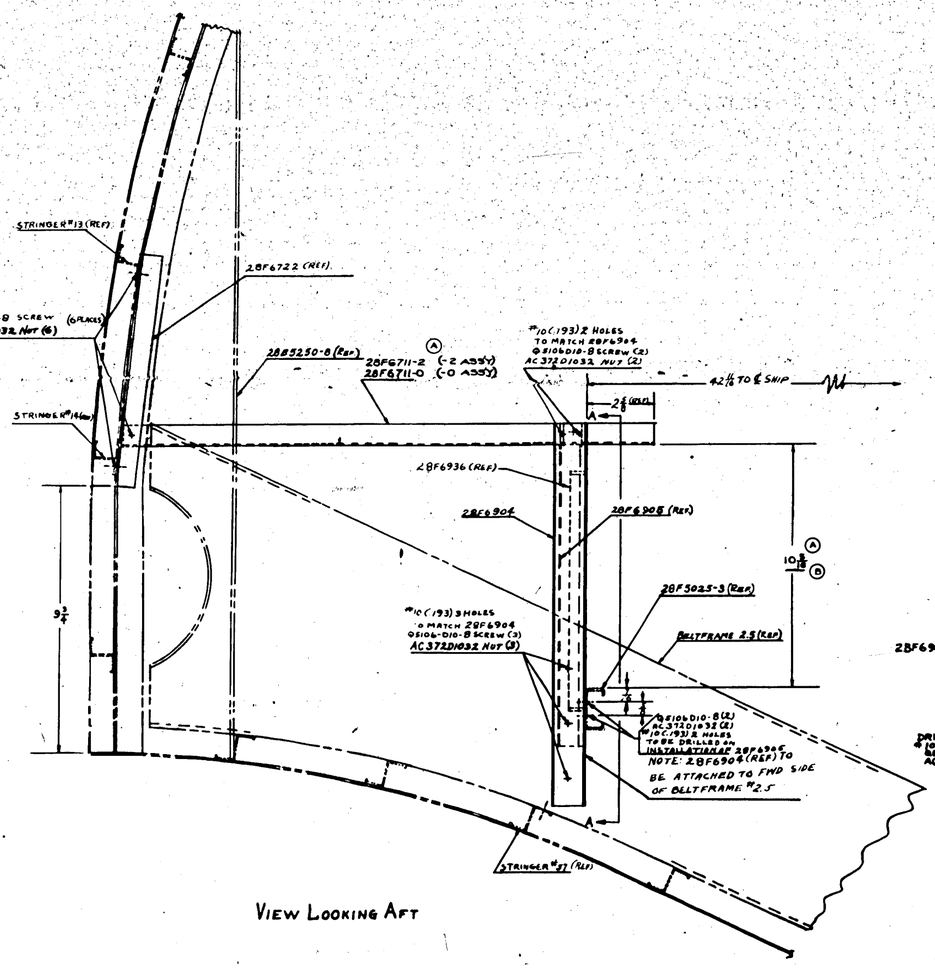
| | | |

LAST	ALTERATION	DATE	BY
A	DIM. B WAS 1 ADDED 28F6711-2 & -0 CHANGE "A" ASSY WT CHANGE NOTE		
B	DIM. 10 WAS, NOW B DIM. 1 ADDED DIM. B		

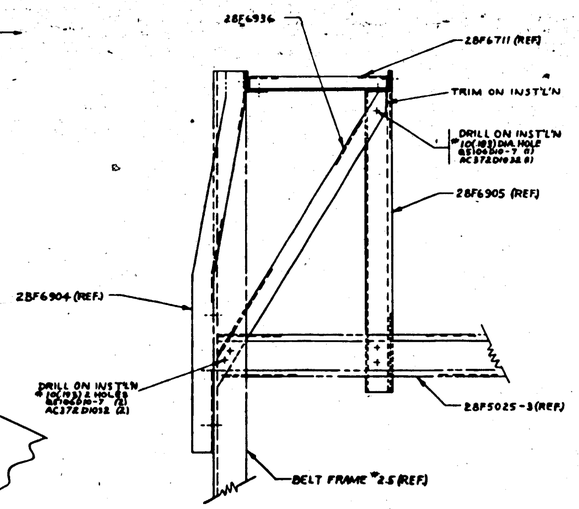
MCR 150-2
MCR 150-3
MCR 150-7



PLAN VIEW



VIEW LOOKING AFT



VIEW "A-A"

| | | |

LET	ALTERATION	DATE	BY
	A. CHGD SPEC. NO. AC-47-7 FROM AT81(C) TO AT81(E)		
	ADDED INSPECTION NOTE 1. SEE MARKING PART NOS. ABOVE.	2-27-46	[illegible]
	B. CHGD HOLE LOCATION IN BRACKETS TO CORRESPOND WITH CHANGE TO DUCT ASSY. ALSO CHGD DIM.	3-20-46	E.O. 493443
	C. ADDED "SPOTWELD" TO SHOW SPOTWELDS ON VIEW C-C AND VIEW DD ALSO NOTCH TO CLEAR VIEW	3-26-46	E.O. 85885
	D. ADDED -8 TO FACE PLATE PART NO.	3-28-46	E.O. 84130
	E. CHGD POSITION OF SECTION LINE "B" TO CLEAR SPOT OF -6 & -7 BRACKET TO BE SAME AS FIXED BRACKET	5-22-46	[illegible]
	F. TO CLEAR BOARD DIMENSION WAS (12R) SEE SECTION	6-10-46	[illegible]
	G. IN PLAN VIEW TRIMMED TOP END OF FLANGE AT 45° DIM. 1/8 WAS 3/16 DIM. 2 3/4 WAS 2 5/8 R. 4 3/8 WAS 4 1/8 ALSO WTG. NOS.	6-19-46	[illegible]

12R

12R

12R

$10\frac{1}{2}$

$19\frac{1}{4}$ (REF)

HOLE IN THIS SIDE ONLY

$1\frac{3}{8}$ DIA.

$\frac{5}{8}$ TYPICAL BOTH SIDES

45°

SPOTWELD 1 INCH APART

60°

D

D

SECTION-AA
SCALE - 12"-1'0"

STRAIGHT FOR THIS DISTANCE

-8 SPACER

SPOT WELD

$5\frac{3}{4}$ DIA.

12R

$14\frac{1}{4}$

SPOTWELD -8 TO -66-7 SPACE APPROX 1" APART

VIEW BB
SCALE 12"-1'0"
VIEW ROTATED 61°

$9\frac{5}{8}$

LAPSEAM

24R

30°

$36\frac{9}{16}$ R

$20\frac{5}{8}$ R

$1\frac{3}{16}$

$\frac{3}{16}$

$\frac{5}{8}$

$1\frac{1}{2}$

VIEW CC
SCALE 12"-1'0"

$1\frac{3}{16}$ R

$\frac{1}{8}$

SIX SLOTS EQUALLY SPACED

$\frac{3}{16}$

$\frac{7}{16}$

R

$\frac{7}{32}$

$\frac{1}{2}$ (REF)

VIEW-DD
SCALE - 12"-1'0"

ALL BEND RADII NOT CALLED OUT TO BE $\frac{1}{8}$

✱ SPOTWELDING SYMBOL
THIS SYMBOL INDICATES SPOTWELDING RIVETS ARE NOT INDICATED ON THIS DRAWING BY SYMBOLS.

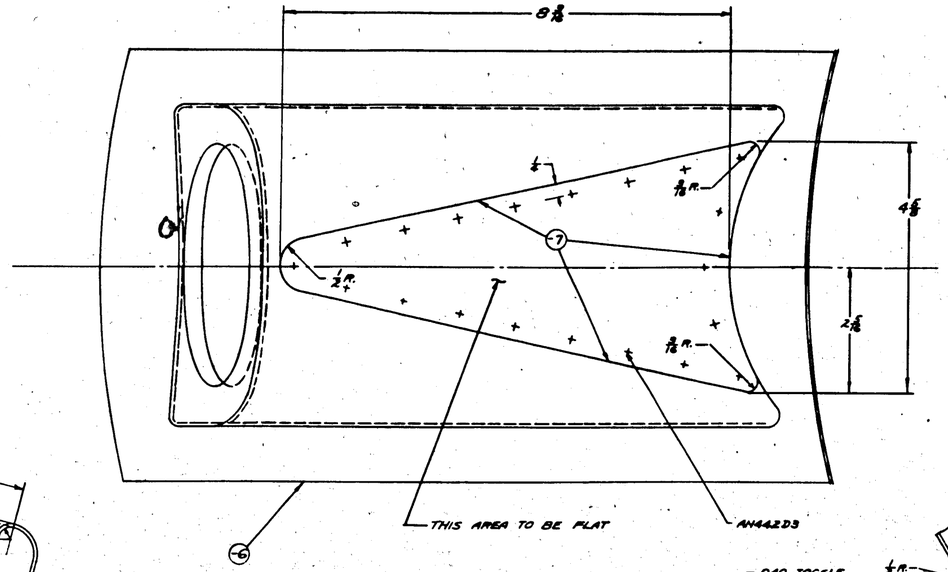
PART NO.	STOCK	MATERIAL	SPEC.	LAST DASH NO. REQ'D	LAST BUT 1 DASH NO. REQ'D	LAST BUT 2 DASH NO. REQ'D	LAST BUT 3 DASH NO. REQ'D
	PARTS LIST PER ASSY.			-10	-8	-4	-8
-8	6x4x.032	ALCLAD	302-3428	1			
-7	.040x14x27	ALCLAD	302-3428	1			
-6	.040x14x22.5	ALCLAD	302-3428	1			

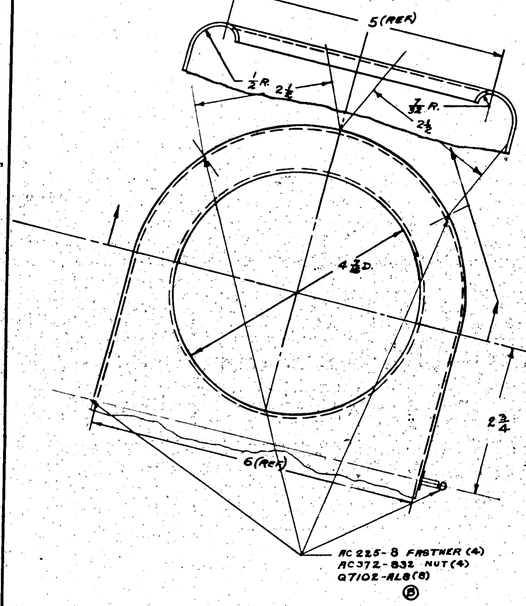
DRAFT	ALONE	Z-P-GP	
HEAT TREAT	FINISH		

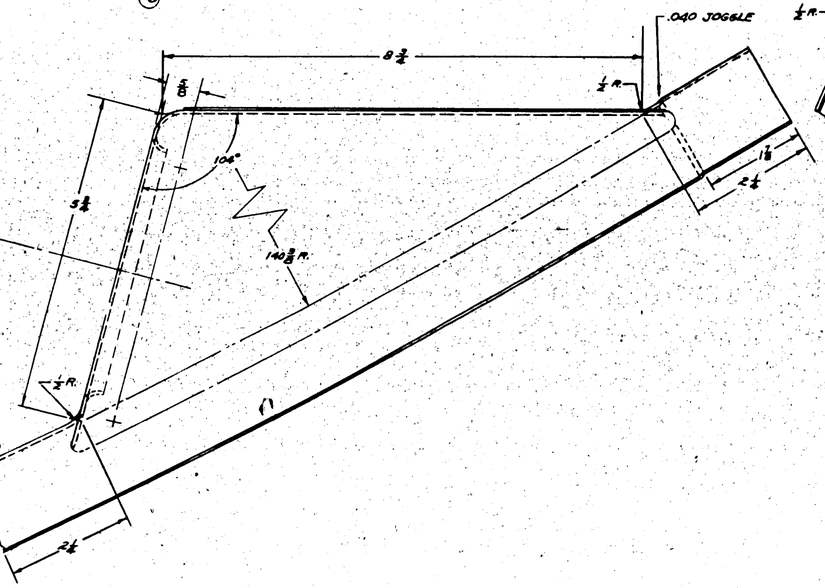
NAME: HEATER DUCT UPPER ANTIICING
CONSOLIDATED AIRCRAFT CORP.
SIZE J
28F6718

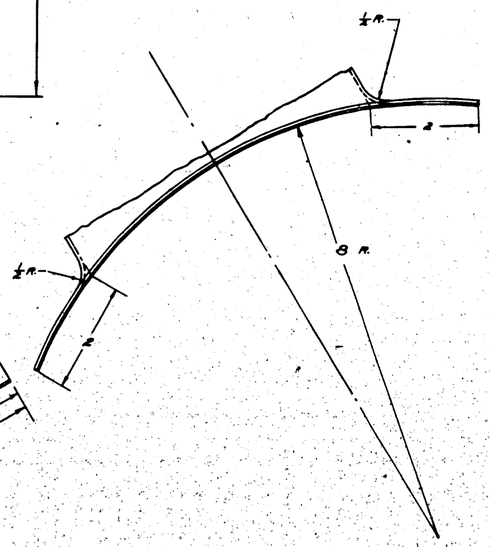
H 390

28F6718 R









MAT	ALTERNATE	DWG	MARK
B	BONDER 1/8 OL MIL R6820 B 1/32 inch 2024 CLAD 2024-T3 SHEET 2024 CLAD BOND (CONTINUED TO FACE 2 SHT.		
B	ARMCO 8C410-R35 NUT & G7102-AL8 WASHER TO CARTER ROSE #BRA CHRO MC 221-7010 AT 2 PLACES WELDMENT		

MAT	ALTERNATE	DWG	MARK

E.O. 81916A

AC 225-8
AC 372-832
G7102-AL8
ANA 426

4
4
4

OK OF # 23(8)

H 391

| | | |

H 392

VIEW - A A
SCALE - 6"=1'-0"

SECTION C-C
THIS SECTION IS TYPICAL
SCALE 2.0"=1'0"

SECTION E-F
THIS SECTION IS TYPICAL
SCALE 2"=1'-0"

SECTION B-B

VIEW D-D
SCALE 12"=1'0"

VIEW E-E
SCALE 12"=1'0"

NOTES:

1. CAC FAB-18 MAYBE PURCHASED FROM MELLUS BROS. & CO. LOS ANGELES, CALIF. OR LEONARD SADLER & CO. LOS ANGELES, CALIF. VENDOR'S NUMBER 24085.
2. AN315-6-8 MAY BE USED AS AN ALTERNATE FOR AN526-632-8
3. MS9-12-8S SHOULD HAVE AN EQUAL SHOULDER THAN 28F6788 COLLAR SHOWN.
4. CAC NUT-25 MAYBE PURCHASED FROM B.F. GOODRICH CO. AKRON, OHIO. VENDORS NUMBER ANNUT 6K08 OR EQUIVALENT.
5. THE OUTER SURFACE OF THE INNER LEADING EDGE SKIN IS TO BE GIVEN ONE COAT OF WHITE GLOSS ENAMEL (SPEC E-6). THE INNER SURFACE OF THE OUTER LEADING EDGE SKIN IS TO BE PAINTED A DULL BLACK (IN LINE ON PRINT).
6. CAC NU179 MAYBE PURCHASED FROM B.F. GOODRICH CO., AKRON, OHIO. VENDORS NUMBER ANNUT 6K75 OR EQUIV.

DRAWN	2-8-55	
TRACED		
CHECKED		
ENGR APPR		
SUPV APPR		

UPPER FIN - INSTALL. - ANTI-ICING SYSTEM

CONSOLIDATED AIRCRAFT CORP. San Diego, California

28F6729

R

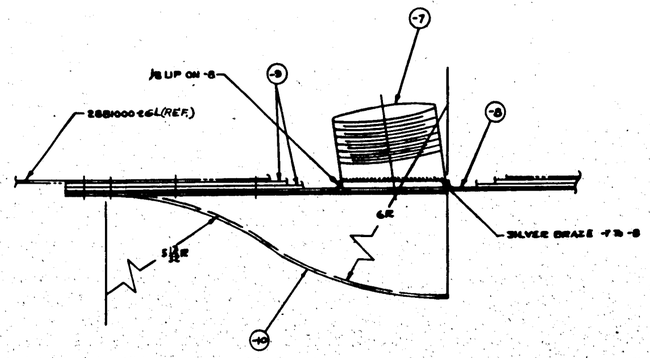
6719102

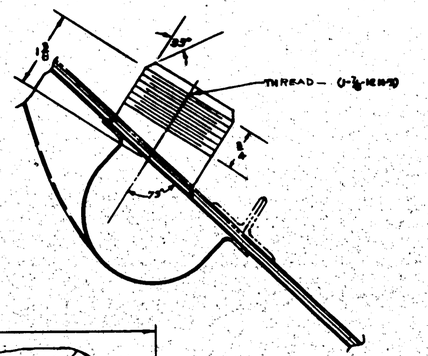
LTR	ALTERATIONS	DATE	BY

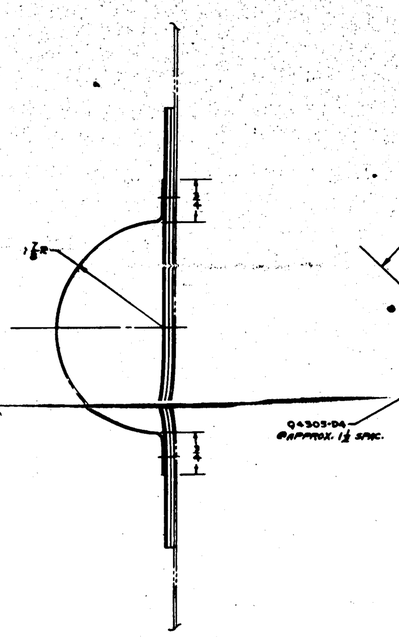
LTR	ALTERATIONS	DATE	BY
A	IN HEAT TREAT ALT. REQUIRED ASSEMBLY CHGD. PARTS REQUIRED UP TO C.	7-15-42	MARK
B	CHGD. PARTS TO AS WELDED	8-21-42	MARK
C	ADDED RIVET SYMBOLS W.P. CHG. NO.	7-15-42	MARK

REVISED: 10-19-42 178-8

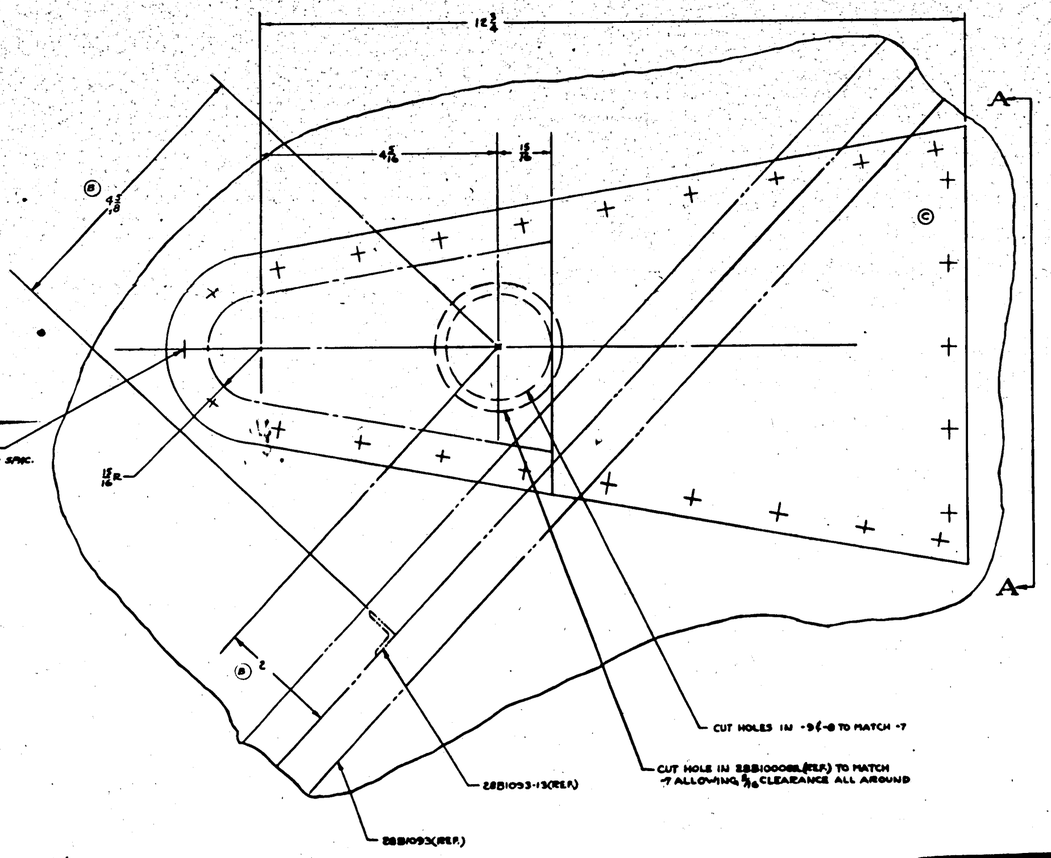
W.O. 888018 Q







VIEW A-A
SCALE 12"=1'0"



VIEW LOOKING INBOARD
FORWARD

MRD 43-17

H 393

APPROVED FOR TOOLING BY

PART NO.	STOCK	MATERIAL	SPEC.	QUAN. PER ASSY.									
				LH	RH	LH	RH	LH	RH	LH	RH	LH	RH
				-10		-9		-8		-7		-6	

-10 93m x 3 1/2 x 3 3/4 SAE 4130 N 94303-D7-A
-9 94m x 3 1/2 x 1/2 SAE 4130 N 94303-D7-A
-8 WELD ASSY

-11 93m x 3 1/2 x 3 3/4 ST ST SH. 94303-D7-A
-7 FORGING 3/4 CHROMY TUBE MIL-T-5066 D
-6 WELD ASSY

94303-D4

MET	ALTERATION	DATE	BY

MET	ALTERATION	DATE	BY
A	IN PLACE MACH BRACKET -34 WAS .063 THK, 2 HOLES WERE -34, ADD NEW CSK. CHGD REQ FOR -12 FROM 1.8 TO 2.0	2-24-59	
B	DELETE (1) LOCATOR -34 (1) BUSHING WAS -34	3-24-59	
C	ON BACK OF DWG ADDED REQUIREMENTS FOR -5 -14 -15 -16 -18 ADJUSTING	4-20-59	
D	CHG'D FROM SPOTWELD TO CAC "FAS" BRACKETS (2 CAC "FAS" BRACKETS ADDED) CHG'D NOTE 2, ADDED NOTE 5, CHG'D NOTE 3 TO READ "CAC "FAS" 39-25 MAY BE PURCHASED FROM DZUS FASTENER CO. BABYLON, N.Y. VENDOR'S "FA6 ½-60 OR EQUIVALENT" ADDED NOTE 4 TO READ "CAC "FAS" 37-25 MAY BE PURCHASED FROM DZUS FASTENER CO. BABYLON, N.Y. VENDOR'S "FA6 ½-63 OR EQUIVALENT"	5-6-59	MCK

SPOTWELD -13 TO -9 & -10 AT APPROX 1" SPACING. USE Q4303 D6 RIVET WHERE NECESSARY CSK. HEADS IN -9 & -10

FAS-37-25 FASTENER
FAS 60 GROMMET
2 PLACES

SEC E-E
12"-1'0"

OUTSIDE MAC SKIN
Q4303-D6 RIVET
AN960-AL6 WASHER
CSK. HEADS IN -16

SPOTWELD -12 TO - 9 & -11 (REF.) AT APPROX 1 SPACING USE Q4303-AD6 WHERE NECESSARY CSK. HEADS IN -12

FALSE BOTTOM

EDGE STRIP

END OF -16

END OF -15

LEDGE OF -12 (REF)

CAC "FAS 39-25
CAC "FAS 60 GROM.
2 PLACES

SECTION D-D
SCALE 12"-1'0"

Q4303-D6
AN960-AL6
CSK HEADS IN -14

DUCT

EDGING STRIP

STIFFENER

BEAD

THESE CONTOURS TO BE DETERMINED BY LOFT

FRONT FACE OF NOSE COWL

NACELLE CONTOUR (REF)

SECTION F-F
SCALE 12"-1'0"

Q4303-D4
AN960-AL6
CSK HEADS IN -16

FORMED EDGE OF DUCT

SEC C-C

SEC B-B

Φ 2156-6-21 BEND

OUTSIDE SKIN

SEC A-A

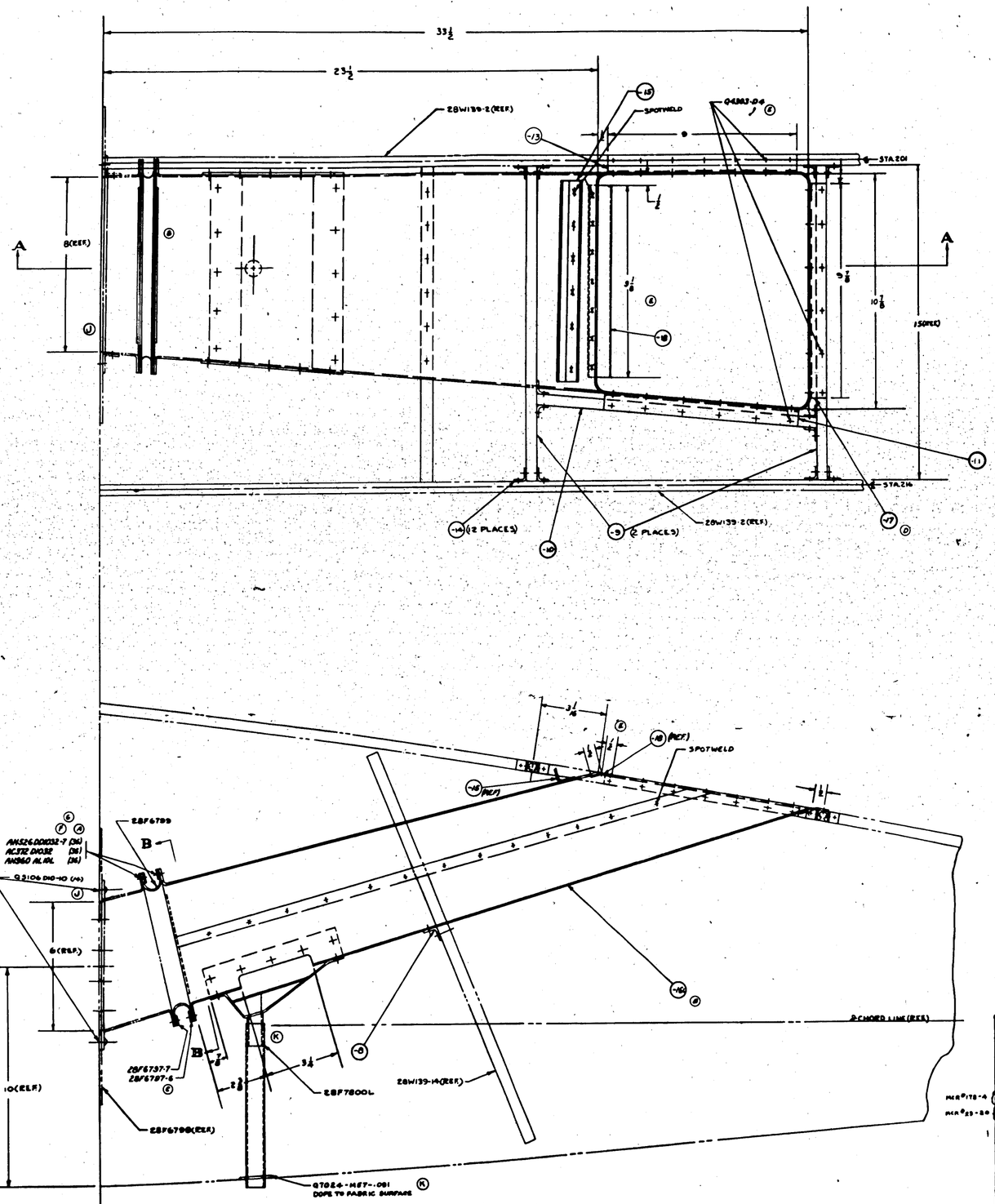
NOTE:
1- SPOTWELD ALL PARTS TOGETHER USING APPROX 1" SPACING. USE AN442-D6 RIVET WHERE NECESSARY. USE THIS PROCEDURE UNLESS OTHERWISE SPECIFIED.
2. C.A.C. FAS "39-25" MAY BE PURCHASED FROM DZUS FASTENER CO., BABYLON, N.Y. VENDOR'S "FA6 ½-60 OR EQUIVALENT.
3. C.A.C. FAS "60 MAY BE PURCHASED FROM DZUS FASTENER CO., BABYLON, N.Y. VENDOR'S "FA6 ½-39" OR EQUIVALENT.
4. "CAC "FAS 37-25 MAY BE PURCHASED FROM DZUS FASTENER CO., BABYLON, N.Y. VENDOR'S "FA6 ½-63 OR EQUIVALENT.

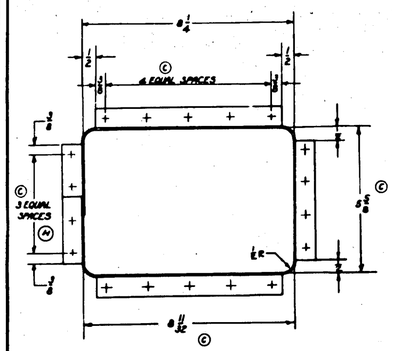
APPROVED FOR TOOLING BY

H 394

| | | |

NOTE
ALL RIVETS AN442-D4
EXCEPT WHERE NOTED





SECTION B-B
SCALE 6"=1'0"

SECTION A-A
SCALE 6"=1'0"

APPROVED FOR
TOOLING BY
E.R. HUMPHREYS, 10-29-42

-8	DM +/8 x 2A												
-11	DM +/8 x 10												
-14	DM +/8 x 14												
-16	DM +/8 x 16												
-15	V3A1016A 1/A												
-10	V3A1012A												
-12	V3A1014A												
-11	V3A1014A 3/A												
-10	V3A1012A 3/A												
-9	V3A1011A 1/A												
-8	V3A1010A 1/A												

PART NO.	STOCK	MATERIAL	SPEC.	LAY OUT REQ'D	LAY OUT REQ'D	LAY OUT REQ'D	LAY OUT REQ'D	LAY OUT REQ'D	LAY OUT REQ'D
PARTS LIST PER ASSY.				-0	-2	-3	-4	-5	

A.S.					
NAVY	SP-SP				
FIGHT TYPE	POWER	DRAFT	DESIGN	ACCOUNT	DEPT

INSTALL.- FURNS.- EXHAUST OUTLET-WING-ANTI-ICING SYS.

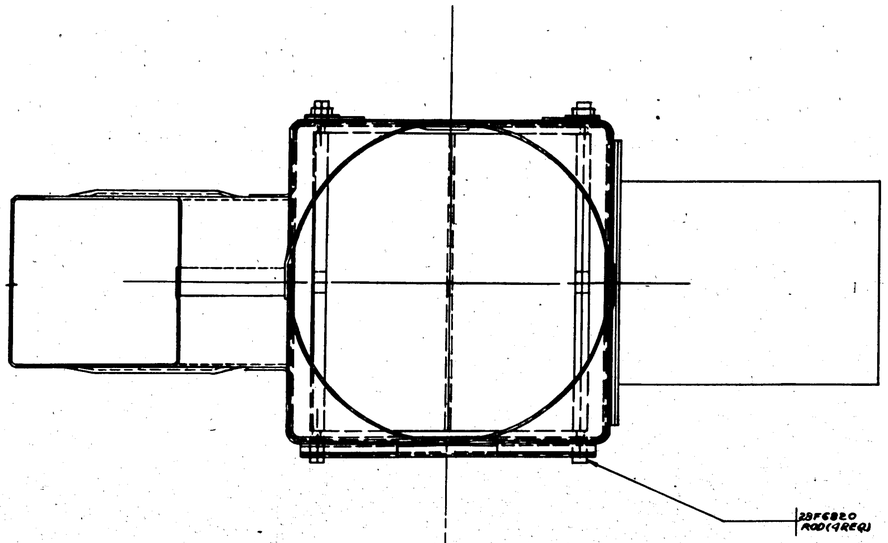
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

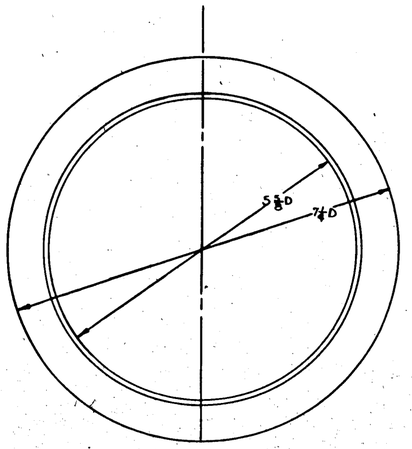
DWG. NO. 28F6796-R
SIZE J
DWG. NO. 28F6796

28F6796

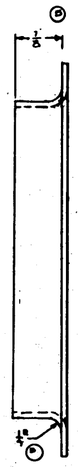
H 395

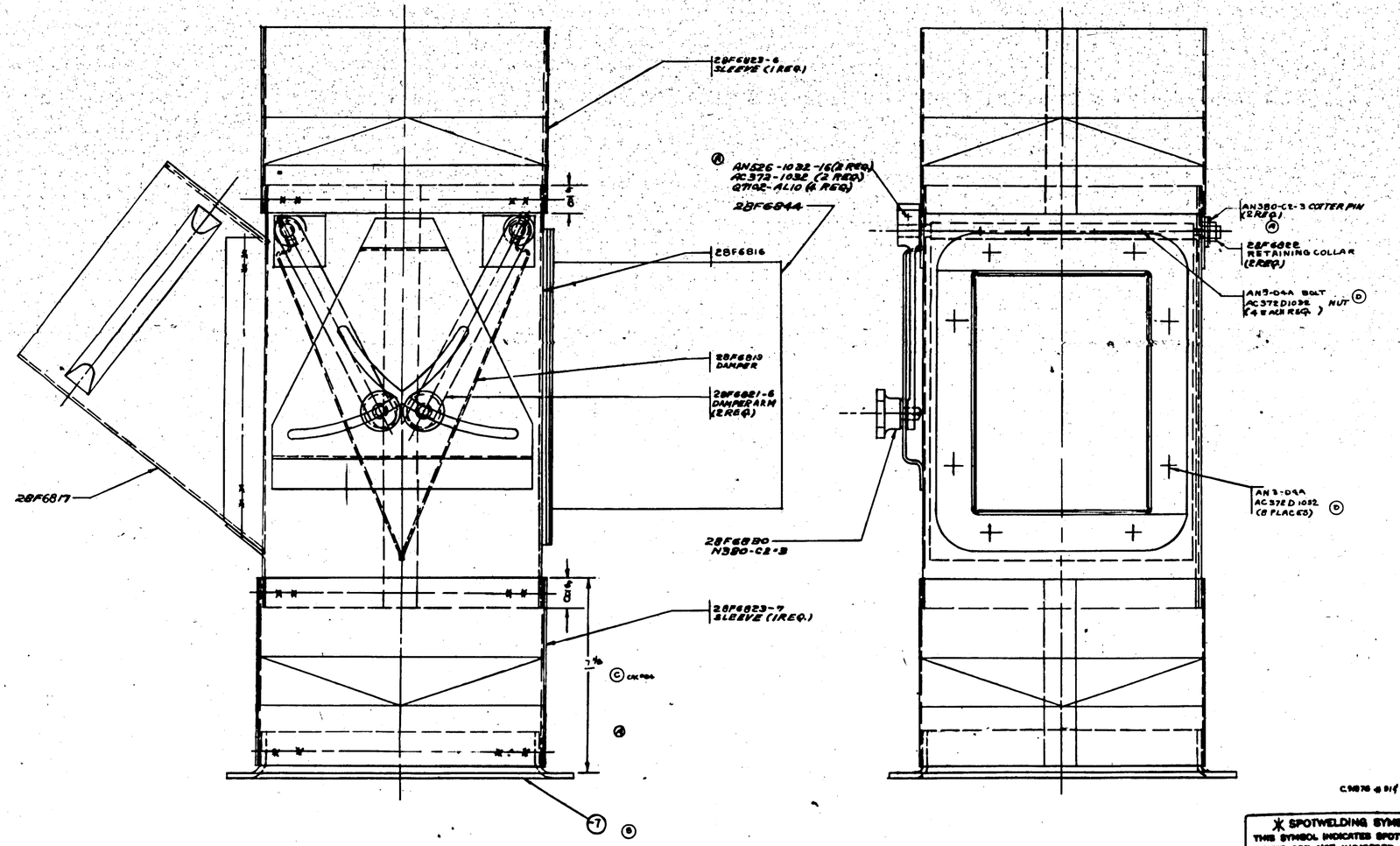
MAT	ALTERATIONS	DWTG	QT	MAT	ALTERATIONS	DWTG	QT
A	CAMLOCK STUD OR EQUIV. -C3-3						
	SCREW AS 164 (3 REQ'D) -00-3-8A						
	RIVETS ARMY-NAVY AN-470-AD (4)						
	AC 572 - 1032-3 (3 REQ'D) -00-3-8A (4)						
	W/CAMLOCK STUD						
B	Band W/A 1032-3 (3 REQ'D)						
	28F6811 Band - 6 WELDMENT						
C	Band W/A 1032-3 MAT. CRS. PER.						
D	AN 3-03A Bolt W/ AN 365-1032-3						
	1032-3 Locknut W/ CRS. REQ.						





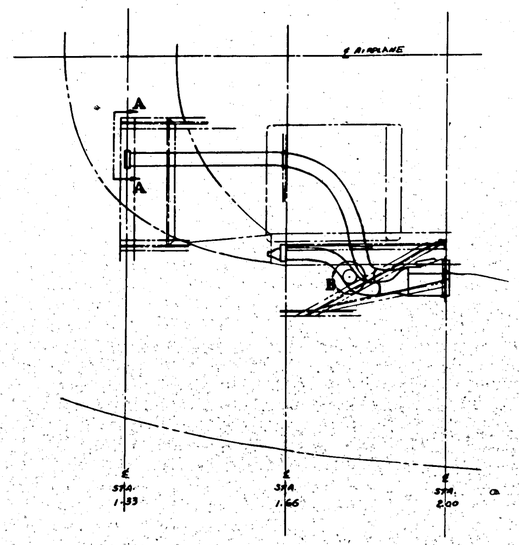
DETAIL OF -7 Ⓐ

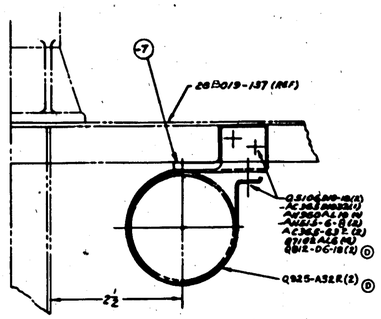




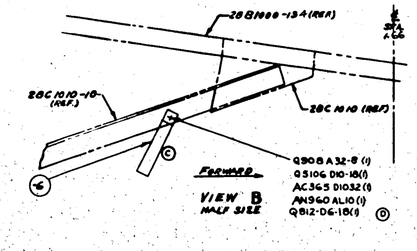
✱ SPOTWELDING SYMBOL
THIS SYMBOL INDICATES SPOTWELDING RIVETS ARE NOT INDICATED ON THIS DRAWING BY SYMBOLS.

| | | | | | |

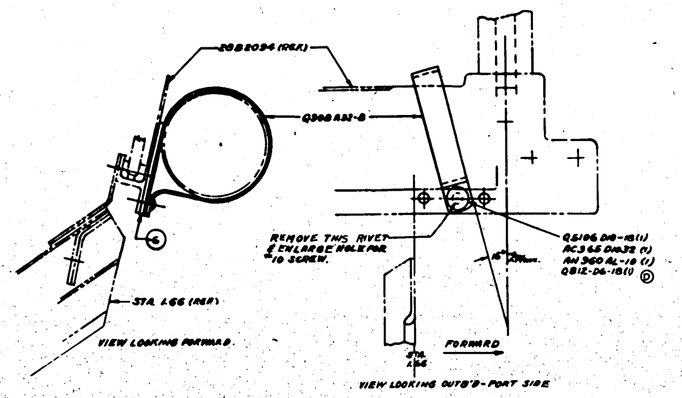




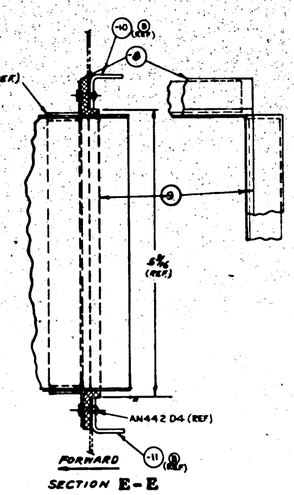
SECTION A-A
FULL SIZE.



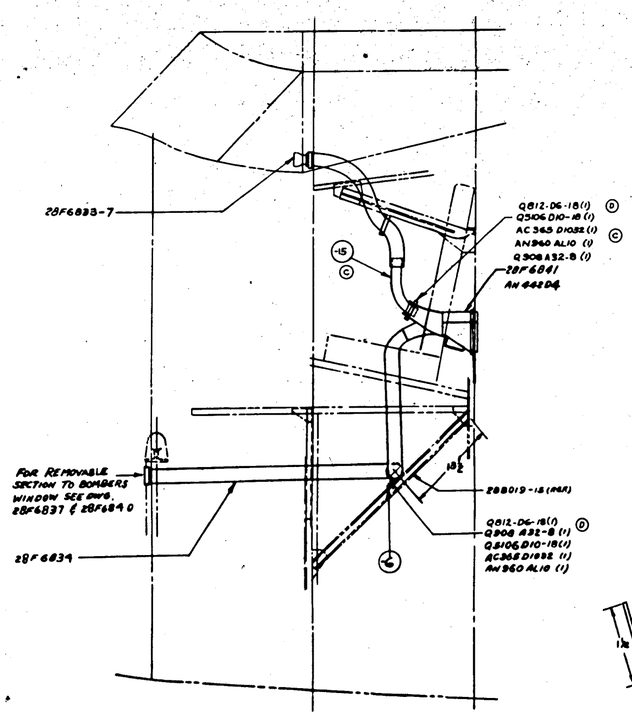
VIEW B
HALF SIZE

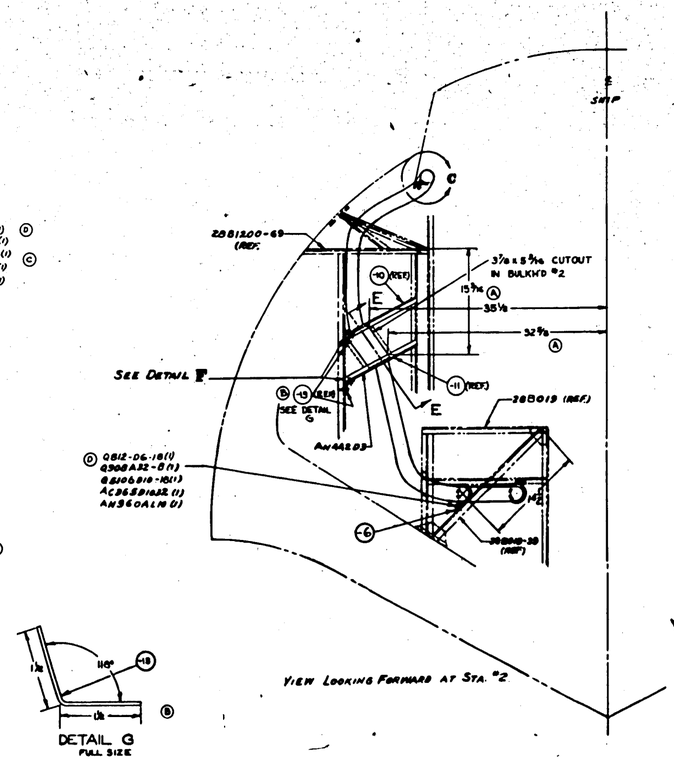


VIEW C
FULL SIZE

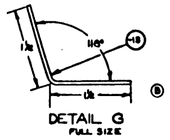


SECTION E-E

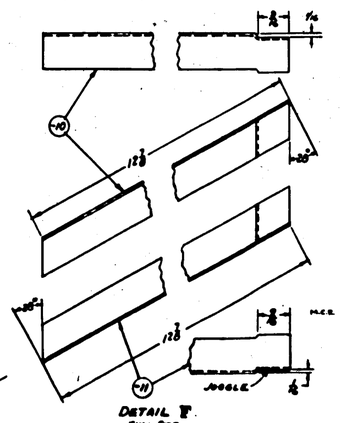




VIEW LOOKING FORWARD AT STA. #2



DETAIL G
FULL SIZE



DETAIL F
FULL SIZE

MAT	ALTERATION	DATE	BY

MAT	ALTERATION	DATE	BY
	A		
	B		
	C		
	D		
	E		

E.O. A61067
M.C. 84

E.O. A64177

E.O. A64304

H 397

INSTALL. - FURNS.
CENTRAL HTG. SYSTEM-STA. 1.33 TO 2

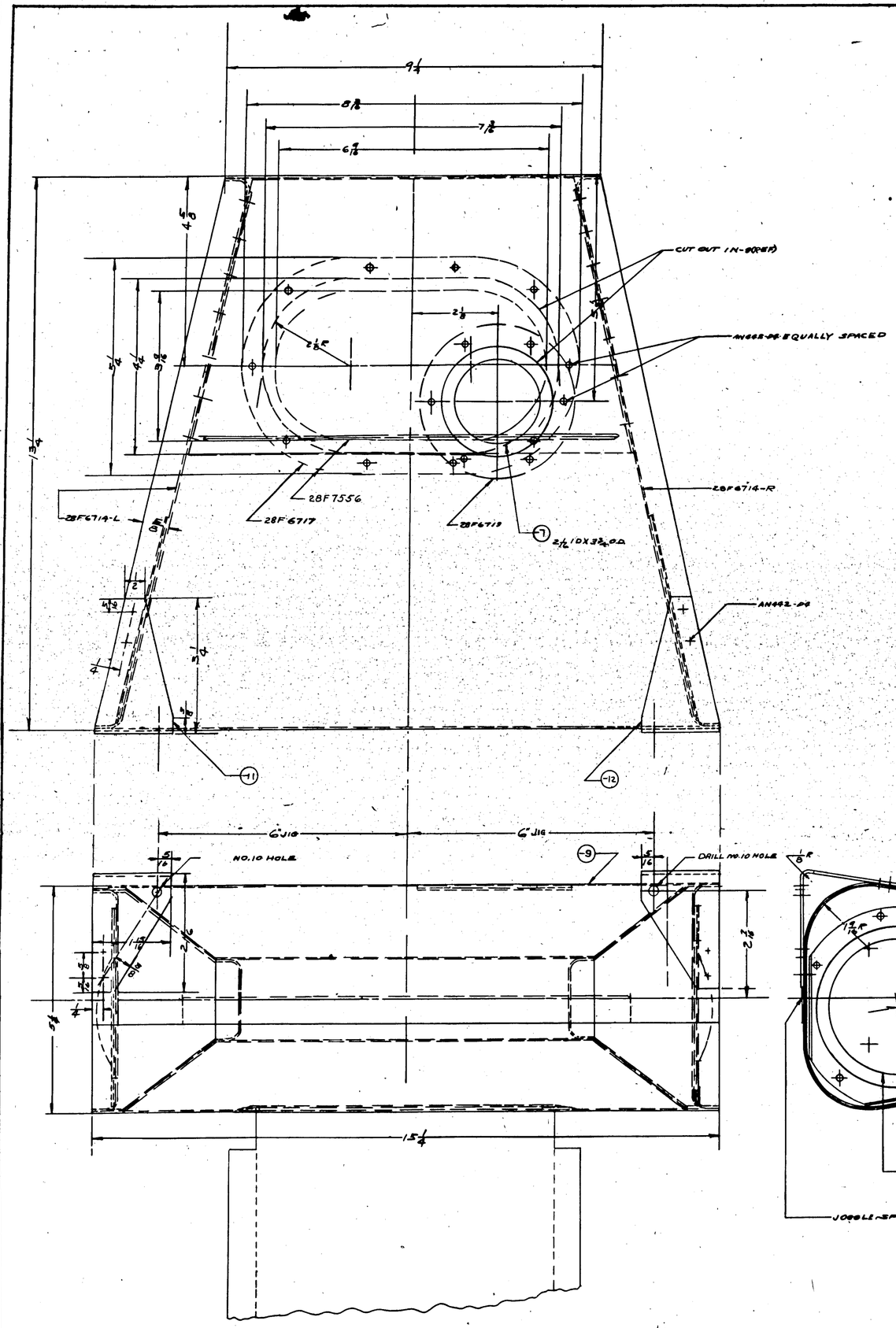
CONSOLIDATED AIRCRAFT CORP.

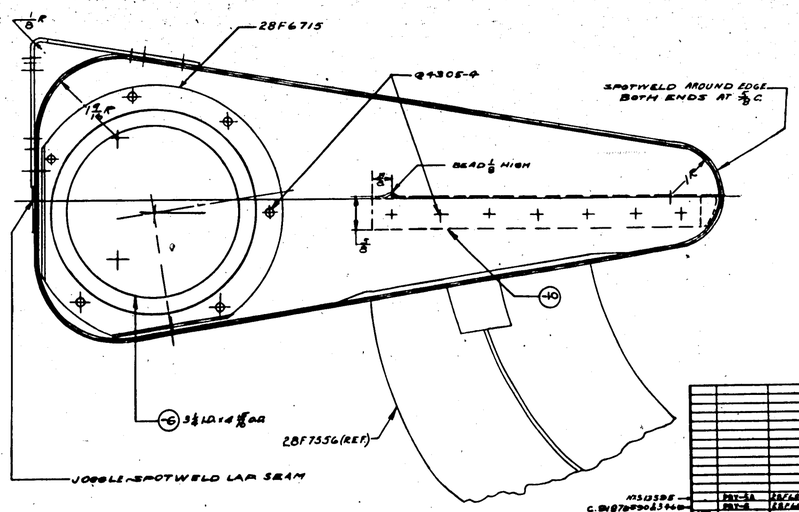
SIZE J

28F6843

28F6843 R

LET	ALTERATION	DATE	BY
B	REDRAWN AND ENGINEERING RECORD ONLY.	5-26-42	
C	ADD 3SCG WAS - B WELDS NEAR	8-6-42	





NOTES:
ALL RADII NOT CALLED OUT TO BE ⅛ R
CAL-PAD-18 MAY BE PURCHASED FROM U.S. RUBBER CO., LOS ANGELES, CALIFORNIA, VENDOR'S NO. STYLE D-52 OR EQUIV.

APPROVED FOR TOOLING
E. L. Bell
1-27-42

28F6719			
28F6715			
28F6714-L			
28F6714-R			
28F7556			
-11	CA4130X.T/8	ALCLAD	43AB-T
-10	CA4130X.T/8	ALCLAD	43AB-T
-9	CA4130X.T/8	ALCLAD	43AB-T
-8	CA4130X.T/8	ALCLAD	43AB-T
-7	CA4130X.T/8	ALCLAD	43AB-T
-6	3½ I.D. x 4⅜ OA		
-5	2½ DIA X 3¾ OA		
-4	2½ DIA X 3¾ OA		
-3	2½ DIA X 3¾ OA		
-2	2½ DIA X 3¾ OA		
-1	2½ DIA X 3¾ OA		
PART NO.	SPEC.	MATERIAL	SPEC.

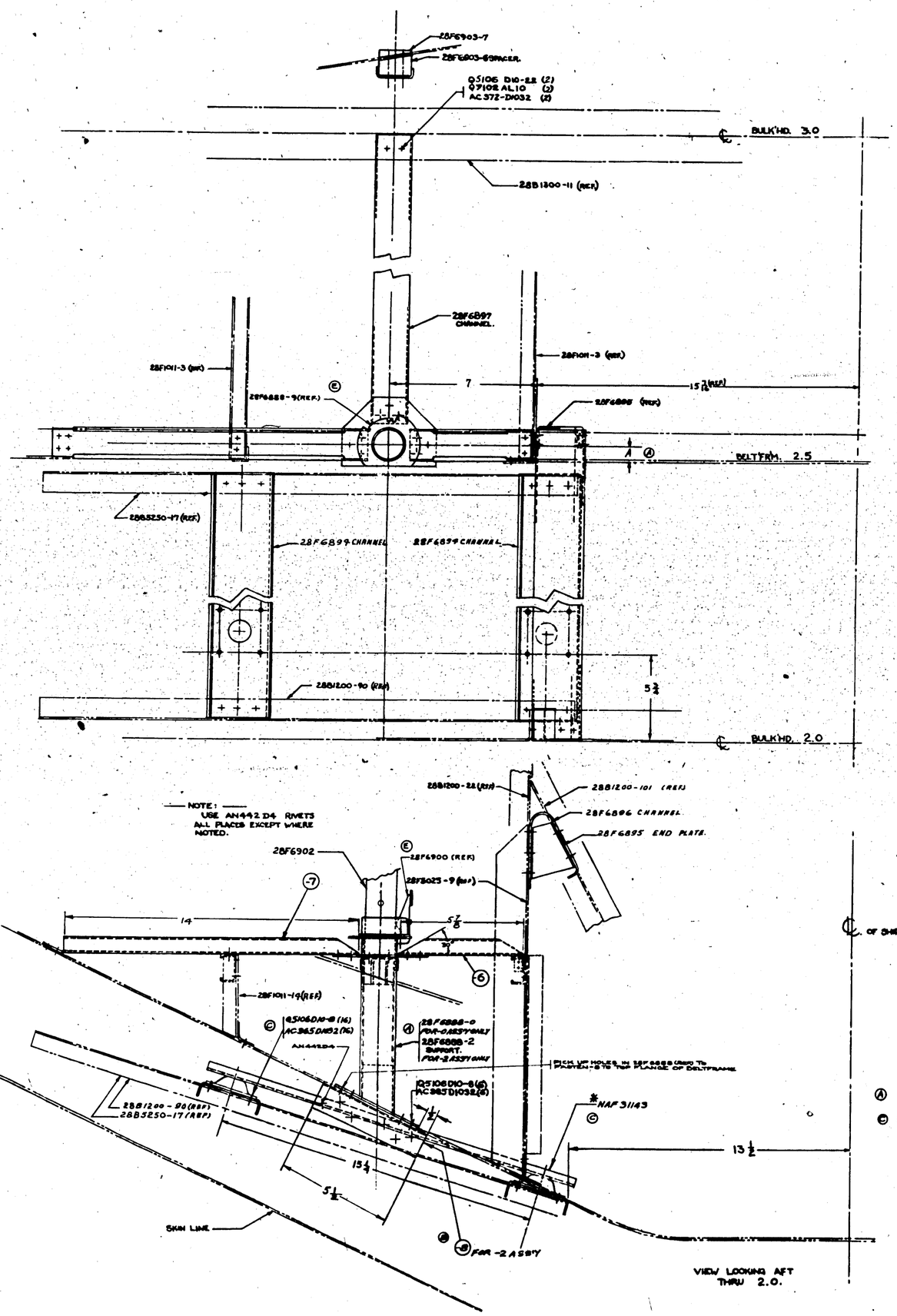
PARTS LIST PER ASSY.

SCALE	NONE
DRAWN	E-P-G-P
DATE	8-11-42
NAME	ASSY. - ANTI-ICING PLENUM CHAMBER
SIZE	J
DWG. NO.	28F6873

CONSOLIDATED AIRCRAFT CORP.

H 398

LET	ALTERATION	DATE	BY



NOTE:
Ⓐ FOR INSTALLATION OF A.S.V. TRANSMITTER ON PBY-5A SEE SDF 7E16. WT-2 ASSY= 4.89
Ⓒ ⊛ DENOTES GOVT FURN. EQUIPT.

Ⓓ

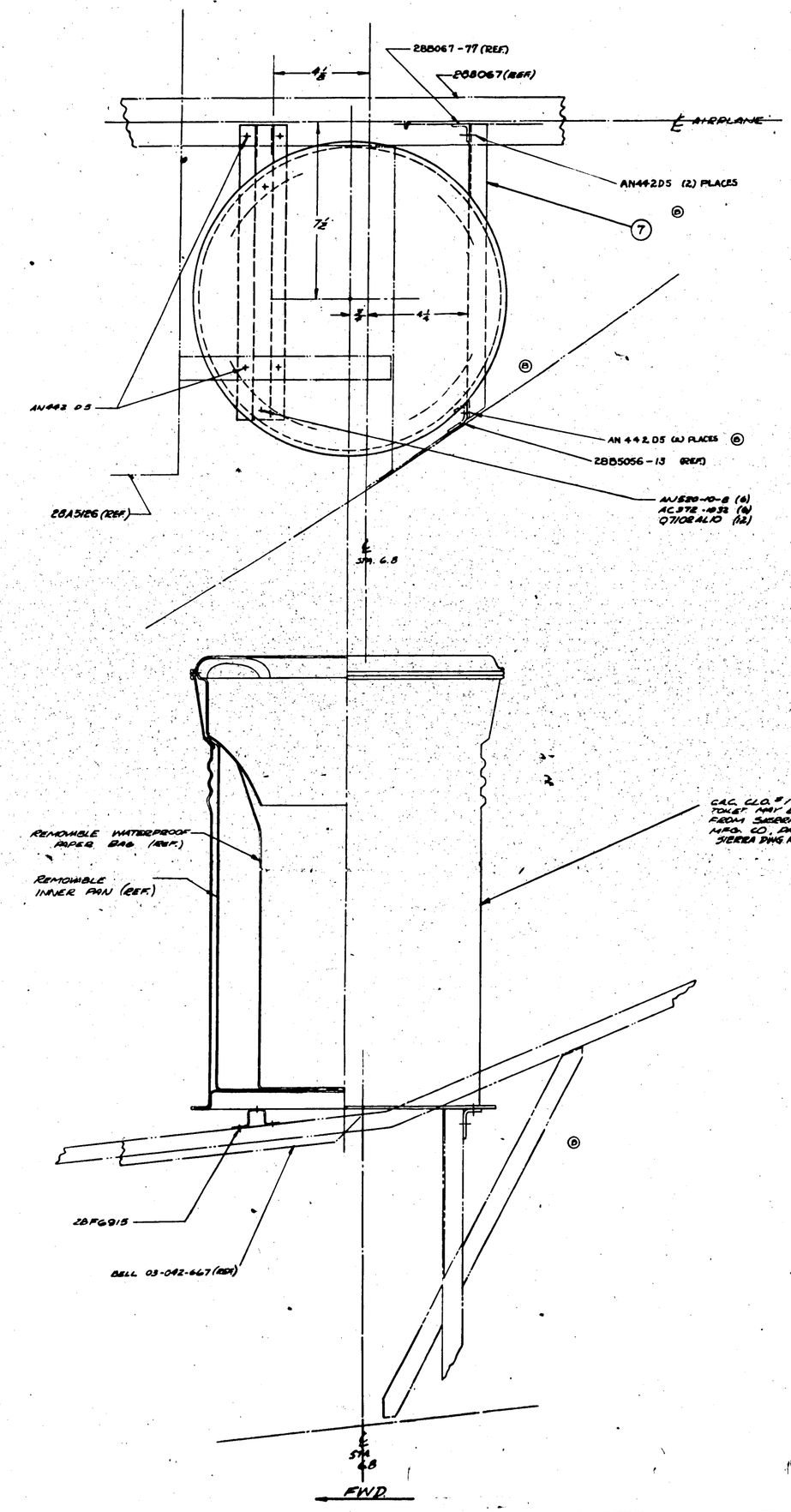
ASSY.	"A" DIM
-0	3/4
-2	1

MARK	NO. REQ'D	PART NO.	ORDER	MATERIAL	SPEC.
	-0				
	-2				

SCALE	6"=1'0"
DRAWN	
TRACED	
CHECKED	
APPROVED	
WEIGHT	
PROJECT	PBY-5A
TITLE	INST-FURN-RADAR OPER'S. SEAT (A.S.V. TRANS. SUPPT.
CONSOLIDATED AIRCRAFT CORP.	
SIZE	J
DWG. NO.	28F6893

R1 6689187

H 400



MKT	ALTERATION	DATE	BY

MKT	ALTERATION	DATE	BY
A	ADDED ATTACH "D" TO CAC CLO #1 TOILET & ADDED NOTE "D, EACH AC PER "28 F 1888		
	ALL TOILET MAY BE USED AS AN ALTERNATE FOR "705 TYPE CC TOILET. WT CH. -1.5#		E.O. A93769 Q
B	CORRECTED REAR AC PER. WITH ACRO -6 WITH -7 AND ADDED AN PER. NUMBER AN960C616 (REF.) & 28B1886-6B (REF.) AND ADDED 28B1604-415 (REF.) IN PLACE OF "ATTACH & ALL SEST "WITH 57 RUBBER PAD, AL AL 2024-T4 SHEET "1" WT CH. 2.1#		E.O. A98326 Q
C	IN PLACE CHANGED PART NO. -5 FROM "28B6916 AL AL BRKT ASSY" TO "7-6 ASSY 21" (WT CH. NONE)		Q

FINISH CODE

Z	ANODIC TREATMENT
P	P-37 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMATE PLATE

CP GREEN PRIME

Ⓐ † "1258 "CLO-1 TOILET MAY BE USED AS AN ALTERNATE FOR "705 TYPE CC TOILET.

Ⓐ † CAC CLO #1 SIERRA SANITARY TYPE CC 1

CONT "13398

PART NO.	STOCK	MATERIAL	SPEC.	PARTS LIST PER ASSY.	-0	-3	-4	-5
	-7 V-6 ASSY 21				1	1	1	1
28F6915					1	1	1	1
					1	1	1	1

MODEL	28F6900	28F6903	28F6904
SHIP ASSY	1	1	1
SPARES			

REQUIRED	4	4	4
EQUIPPED BY	PER ST.		
SCALE	6"=1'-0"		

| | | | | |

Q	CAC NU 43-60 NUT ST. STEEL (ALTERNATE TO 32) WAS AC 368		
	9/1032 ADDED NOTE "PLASTIC ... CAC NU 43-60"		
P	WT CHG NEG.	7-28-43	
N	DIM 1 5/8 WAS 1 3/4 ; 4 5/8 WAS 4 3/4		
M	REMOVED	9-17-43	
L	FROM ORDER A "RESULT IN" BLANKET AUTH. ADDED C-VAC NU 431-20 (TINNERMAN PRODUCTS INC. CLEVELAND OHIO) - AN101 CAL - 10 (.1363) HOLES IN -22 SUB ASSY WAS "-10 (.1693) HOLES IN -24 SUB ASSY" IN 9/1 BY		
K	ADDED C-VAC NU 431-20 & AN425 AD 1032-4 ADDED C-VAC NU 431-20 & 4 HOLES "AN" WT CHG NEG.	9-11-43	

E.O. B27051

MET	ALTERATIONS	DATE	BY	MET	ALTERATIONS	DATE	BY
	R.K. 37 RDIOSE (IE) TO -16L OF SUB-ASS'Y WT CHG NEG.			B	REINSTATED F REQ'MNT.		
N	TO NOTE "AN442B28 OR EQUIVALENT" FOR SPOTWELD WT CHG NEG.	9-29-43		C	ON PAGE 5 IN SECT. REQUIREMENTS ADDED "-16L (REF) - IN LIEU OF -16L" INTO -12L - 5 TO -16 WT CHG NEG.	9-29-43	
M	REMOVED DIMS 4 & 5 WAS ADDED E 1/16 & 4 3/8 IN SEC A-A REMOVED DIMS 1 & 8 ADDED 1/32 & 1/16 CHGD - 24 & 25 TO - 27 & - 28 & 14 FROM 6 - 32 1/4 & CHGD METHOD OF DIMENSIONING "A" HOLE & IN VIEW B-B IN AVE VIEW REMOVED DIMS 1/4 & ADDED 1/8 ADDED SECT. F-F & F-F WT CHG NEG.	8-26-43		D	REVISED -4 PLATE - (-16) ADDED 2 No. #8-B1N (R-RELEASE) CHG'D CHRO. TO ALODINE PROFILE TO -4 ADDED 8.93" WIDE & REVISED NOTES REMOVED DIMS 3 1/16 & 1/2 ADDED & 4 1/16 & 1/2	9-15-43	
K	ADDED SLOT FOR THERMOCOUPLE	9-14-43			DIM E REMOVED	9-15-43	
L	DIM E 2 1/4 WT CHG NEG.	9-15-43		E	IN DWG REMOVED (-16) ADDED (-16L)	9-15-43	
J	-101 REPLACED BY REL C-111 BY -24L				FROM -16L (REF) TO -16L (R) SUB-ASSY'S ADDED -24 SUB ASSY COMPLETE		
	CHGD SECT A-A TO SHOW FLANGE ON -24 SUB ASSY			K	ADDED -16 SUB ASSY'S (-16L & -16R)	9-28-43	
	SECT C-C FROM WT OF -24 & -25 DIM. 1/16 WAS 5/64 & 3 WAS 3-12 (12 PLACES)				SPACED -16 SUB ASSY'S (-16L & -16R)		
	NOTE "FOR 1693-24 SUB-ASSY'S" WAS PRE-DRILL C-111 SECT. E-E DIM. 3/4 WAS 1/2 WT CHG NEG.	10-04-43		L	-101 REPLACED BY REL C-111 BY -24L WITH FLOATING DIMS. (SLOTTED) RE-MOVED NOTE "ALL SHEETS ..." ADDED	9-29-43	
M	1 SHT. B-D EAT ZONE C-4 (SHEET) WAS 1 WT CHG.	10-7-43			-16 SUB ASSY'S (-16L & -16R) SPACED -16 SUB ASSY'S (-16L & -16R) REMOVED NOTE "ALL SHEETS ..." ADDED		
N	IN REC'DO NOTE "-29K (REQ'D) ---- BLACK" WAS "-29CRES (SIL-ICEL) 4 PLACES" WT CHG.	11-15-43			VIEW B-B WT CHG. NEG.	9-15-43	
P	ZONE B-3 DIM 3/8 WAS 1/2 ADDED 3/8 DIM WT CHG. NEG.	11-15-43		M	CHGD -16 TO -25 (CLAMP ATTACHMENT) TO -24 SEAM ADDED ACCESSORIES (-72 - 24 SUB ASSY & IN DET "C" CHGD SLOT 8(n) TO (R) IN VIEW D-D CHGD 3/16 R TO 1/4 R REMOVED AN 425 & ADDED 03 (-101 D-D (R))	10-7-43	

E.O. B20345
E.O. B09208B
E.O. B21128

E.O. B41364

E.O. B30208

E.O. B26868

SECTION F-F
SCALE 6"-1'0"

VIEW B-B
SCALE 6"-1'0"

DETAIL C
SCALE 18"-1'0"

SLOT 12 PLACES IN UPPER DUCT
18 PLACES IN LOWER DUCT TO MATCH ANCHOR NUTS ON -25

SECTION E-E
SCALE 6"-1'0"

SECTION A-A
SCALE 6"-1'0"

VIEW D-D

DUCT MAY BE TRIMMED ON INSTALLATION TO ALLOW FOR VARIATION IN WING STRUCTURE.

SEE VIEW BB

SPOT WELD AT APPR X 3/4 SPACING

AN 442-04 APPROX 3/4 SPACING OR SPOTWELD

DASH NO	WT.
-16 L & R SUB ASSY	2.4 LBS.
-16 L & R SUB ASSY	4.00 LBS.
-16	.21
-24 SUB ASSY	.98

NOTE: C.A.C. PAR 13 MAY BE PURCHASED U.S. RUBBER CORP LOS ANGELES, CALIF. VENDOR'S NO. STYLE 8-58 OR EQ

5. PLASTIC STOP NUT PLATE 9-28 MAY-43 SAC NU 43-30 MAY BE USED AS ALTERNATE FOR 79 MAY-42 CAC NU 43-20. PURCHASED PER: PLASTIC STOP NUT CORP., UNION, N. J.)

FLUSH: 2 AFTER SPOTWELDING ICOAT ZINC CHROMATE PRIMER SPEC P.T.E ON COAT HEAT RESISTING ALUMINUM VARNISH.

MCR 178-3

MCR "29-10

APPROVED FOR TOOLING BY Humphreys

C VAC NU 431-20 (TINNERMAN)	A-10 (B)		12
C 1105-A1			12
AN442D3			12
-24 SUB ASSY	ALCLAD	QQA362/1	1
-25 SUB ASSY			1
AN442B4			
AN426D3			
CAC NU 43-20 NUT 79MAY-02			28
-16R YRA23T×88			1
-54R .032×14×23	ALCLAD	QQA362E	1
-55R .032×14×17	ALCLAD	QQA362E	1
-17R SUB-ASS'Y			1
AN442B4			
AN426D3			
CAC NU 43-20 NUT 79MAY-02			28
-12L YRA23T×88			1
-54L .032×14×23	ALCLAD	QQA362E	1
-55L .032×14×17	ALCLAD	QQA362E	1
-17L SUB ASS'Y			1
AC37210138			18
QS10610-8			18
AN442B4			
-30R YRA21T×6 1/8			1
-29R YRA23T×5 5/8			1
-28R YRA43T×6 1/2			1
-27R YRA43T×8 1/8			1
-23R .032×16×30	ALCLAD	QQA362E	1
-22R .032×15×30			1
-21R .032×10×30			1
-20R .032×10×30	ALCLAD	QQA362E	1
-16R SUB ASS'Y			1
AN442B4			
AC37210138			18
QS10610-A			18
-30L YRA21T×6 1/8			1
-29L YRA23T×5 5/8			1
-28L YRA43T×6 1/2			1
-27L YRA43T×8 1/8			1
-23L .032×16 R 30			1
-22L .032×15×30			1
-21L .032×10×30			1
-20L .032×10×30			1
-16L SUB ASS'Y			1
-24 SUB-ASS'Y			1
-16 (10) 3/8 W 6 30	ALCLAD	QQA362E	FAB 13
-16L SUB-ASS'Y			1
-17L SUB-ASS'Y			1
-16L SUB-ASS'Y			1
-16R SUB-ASS'Y			1

PART No.	STOCK	MATERIAL	SPEC	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
PARTS USED PER ASSY.				-0	-2	-3	-4	-5	

-24	SPOT-3A	.090" TOL	4
-18 R	PBY-5A	.060" TOL	2
-17 R	PBY-6A	.090" TOL	1
-17 L	PBY-8A	.090" TOL	1
-16 R	PBY-9A	.090" TOL	1
-16 L	PBY-9A	.090" TOL	1
-24	PBY-5	.090" TOL	4
-18	PBY-5	.090" TOL	6
-17 R	PBY-6	.090" TOL	1
-17 L	PBY-6	.090" TOL	1
-16 R	PBY-	.090" TOL	1
-16 L	PBY-	.090" TOL	1

REQUIREMENTS FOR ASSEMBLY	NOTED
EQF6922 OF 9-8-43	

SCALE	6"-1'0" (NOTED)
V.M.	
STAMP PART NUMBER WHERE INDICATED	

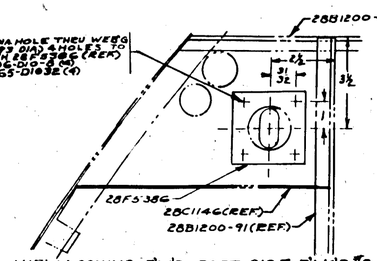
A-8		SURFACE FINISH	
PARTS	NONE	NOTED	
HEAT TREAT		FINISH	

NAME	DUCT ASS'Y ANTI-ICING-CELL
CONSOLIDATED AIRCRAFT CORP.	SAN DIEGO

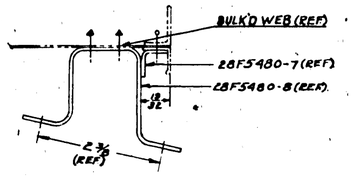
DWG. NO.	REVISION
J	28F6922

28F6922

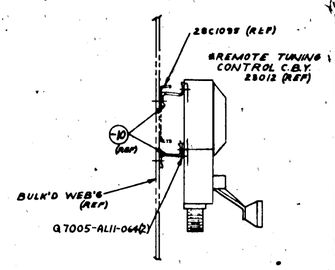
H 402



VIEW LOOKING F'W'D, PORT SIDE, BLK'D #2
-2 ASS'Y Ⓑ



VIEW A-A
-04-2 ASS'Y



VIEW D-D Ⓓ
-2 ASS'Y

LET	ALTERATIONS	DATE	BY
H	INSTALL SW-37-A & SW-38-A WAS K54258 & 3/16x1"=AAAA-1"		
J	REMOVED AC365-937A(4) HOLES ON NU 24-35 (22 ALL) (2) (4) & ADD 03 ON FACE OF DWG.		
K	ADDED 28F5480-7 & -8 (REF)		
L	ADDED 28F5106-L (REF)		
M	ADDED 28F5386 (REF)		
N	ADDED 28F5106-E (REF)		
P	ADDED 28F5106-L (REF)		
R	ADDED 28F5106-L (REF)		
S	ADDED 28F5106-L (REF)		
T	ADDED 28F5106-L (REF)		
U	ADDED 28F5106-L (REF)		
V	ADDED 28F5106-L (REF)		
W	ADDED 28F5106-L (REF)		
X	ADDED 28F5106-L (REF)		
Y	ADDED 28F5106-L (REF)		
Z	ADDED 28F5106-L (REF)		
AA	ADDED 28F5106-L (REF)		
AB	ADDED 28F5106-L (REF)		
AC	ADDED 28F5106-L (REF)		
AD	ADDED 28F5106-L (REF)		
AE	ADDED 28F5106-L (REF)		
AF	ADDED 28F5106-L (REF)		
AG	ADDED 28F5106-L (REF)		
AH	ADDED 28F5106-L (REF)		
AJ	ADDED 28F5106-L (REF)		
AK	ADDED 28F5106-L (REF)		
AL	ADDED 28F5106-L (REF)		
AM	ADDED 28F5106-L (REF)		
AN	ADDED 28F5106-L (REF)		
AP	ADDED 28F5106-L (REF)		
AQ	ADDED 28F5106-L (REF)		
AR	ADDED 28F5106-L (REF)		
AS	ADDED 28F5106-L (REF)		
AT	ADDED 28F5106-L (REF)		
AU	ADDED 28F5106-L (REF)		
AV	ADDED 28F5106-L (REF)		
AW	ADDED 28F5106-L (REF)		
AX	ADDED 28F5106-L (REF)		
AY	ADDED 28F5106-L (REF)		
AZ	ADDED 28F5106-L (REF)		
BA	ADDED 28F5106-L (REF)		
BB	ADDED 28F5106-L (REF)		
BC	ADDED 28F5106-L (REF)		
BD	ADDED 28F5106-L (REF)		
BE	ADDED 28F5106-L (REF)		
BF	ADDED 28F5106-L (REF)		
BG	ADDED 28F5106-L (REF)		
BH	ADDED 28F5106-L (REF)		
BJ	ADDED 28F5106-L (REF)		
BK	ADDED 28F5106-L (REF)		
BL	ADDED 28F5106-L (REF)		
BM	ADDED 28F5106-L (REF)		
BN	ADDED 28F5106-L (REF)		
BP	ADDED 28F5106-L (REF)		
BQ	ADDED 28F5106-L (REF)		
BR	ADDED 28F5106-L (REF)		
BS	ADDED 28F5106-L (REF)		
BT	ADDED 28F5106-L (REF)		
BU	ADDED 28F5106-L (REF)		
BV	ADDED 28F5106-L (REF)		
BW	ADDED 28F5106-L (REF)		
BX	ADDED 28F5106-L (REF)		
BY	ADDED 28F5106-L (REF)		
BZ	ADDED 28F5106-L (REF)		
CA	ADDED 28F5106-L (REF)		
CB	ADDED 28F5106-L (REF)		
CC	ADDED 28F5106-L (REF)		
CD	ADDED 28F5106-L (REF)		
CE	ADDED 28F5106-L (REF)		
CF	ADDED 28F5106-L (REF)		
CG	ADDED 28F5106-L (REF)		
CH	ADDED 28F5106-L (REF)		
CJ	ADDED 28F5106-L (REF)		
CK	ADDED 28F5106-L (REF)		
CL	ADDED 28F5106-L (REF)		
CM	ADDED 28F5106-L (REF)		
CN	ADDED 28F5106-L (REF)		
CP	ADDED 28F5106-L (REF)		
CQ	ADDED 28F5106-L (REF)		
CR	ADDED 28F5106-L (REF)		
CS	ADDED 28F5106-L (REF)		
CT	ADDED 28F5106-L (REF)		
CU	ADDED 28F5106-L (REF)		
CV	ADDED 28F5106-L (REF)		
CW	ADDED 28F5106-L (REF)		
CX	ADDED 28F5106-L (REF)		
CY	ADDED 28F5106-L (REF)		
CZ	ADDED 28F5106-L (REF)		
DA	ADDED 28F5106-L (REF)		
DB	ADDED 28F5106-L (REF)		
DC	ADDED 28F5106-L (REF)		
DD	ADDED 28F5106-L (REF)		
DE	ADDED 28F5106-L (REF)		
DF	ADDED 28F5106-L (REF)		
DG	ADDED 28F5106-L (REF)		
DH	ADDED 28F5106-L (REF)		
DJ	ADDED 28F5106-L (REF)		
DK	ADDED 28F5106-L (REF)		
DL	ADDED 28F5106-L (REF)		
DM	ADDED 28F5106-L (REF)		
DN	ADDED 28F5106-L (REF)		
DP	ADDED 28F5106-L (REF)		
DQ	ADDED 28F5106-L (REF)		
DR	ADDED 28F5106-L (REF)		
DS	ADDED 28F5106-L (REF)		
DT	ADDED 28F5106-L (REF)		
DU	ADDED 28F5106-L (REF)		
DV	ADDED 28F5106-L (REF)		
DW	ADDED 28F5106-L (REF)		
DX	ADDED 28F5106-L (REF)		
DY	ADDED 28F5106-L (REF)		
DZ	ADDED 28F5106-L (REF)		
EA	ADDED 28F5106-L (REF)		
EB	ADDED 28F5106-L (REF)		
EC	ADDED 28F5106-L (REF)		
ED	ADDED 28F5106-L (REF)		
EE	ADDED 28F5106-L (REF)		
EF	ADDED 28F5106-L (REF)		
EG	ADDED 28F5106-L (REF)		
EH	ADDED 28F5106-L (REF)		
EJ	ADDED 28F5106-L (REF)		
EK	ADDED 28F5106-L (REF)		
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ZY	ADDED 28F5106-L (REF)		
ZZ	ADDED 28F5106-L (REF)		

LET	ALTERATIONS	DATE	BY
A	PARTS REVISED TO AGREE WITH INSTALL. DRAWING		
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C	ADDED 28F5106-L (REF)		
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AB	ADDED 28F5106-L (REF)		
AC	ADDED 28F5106-L (REF)		
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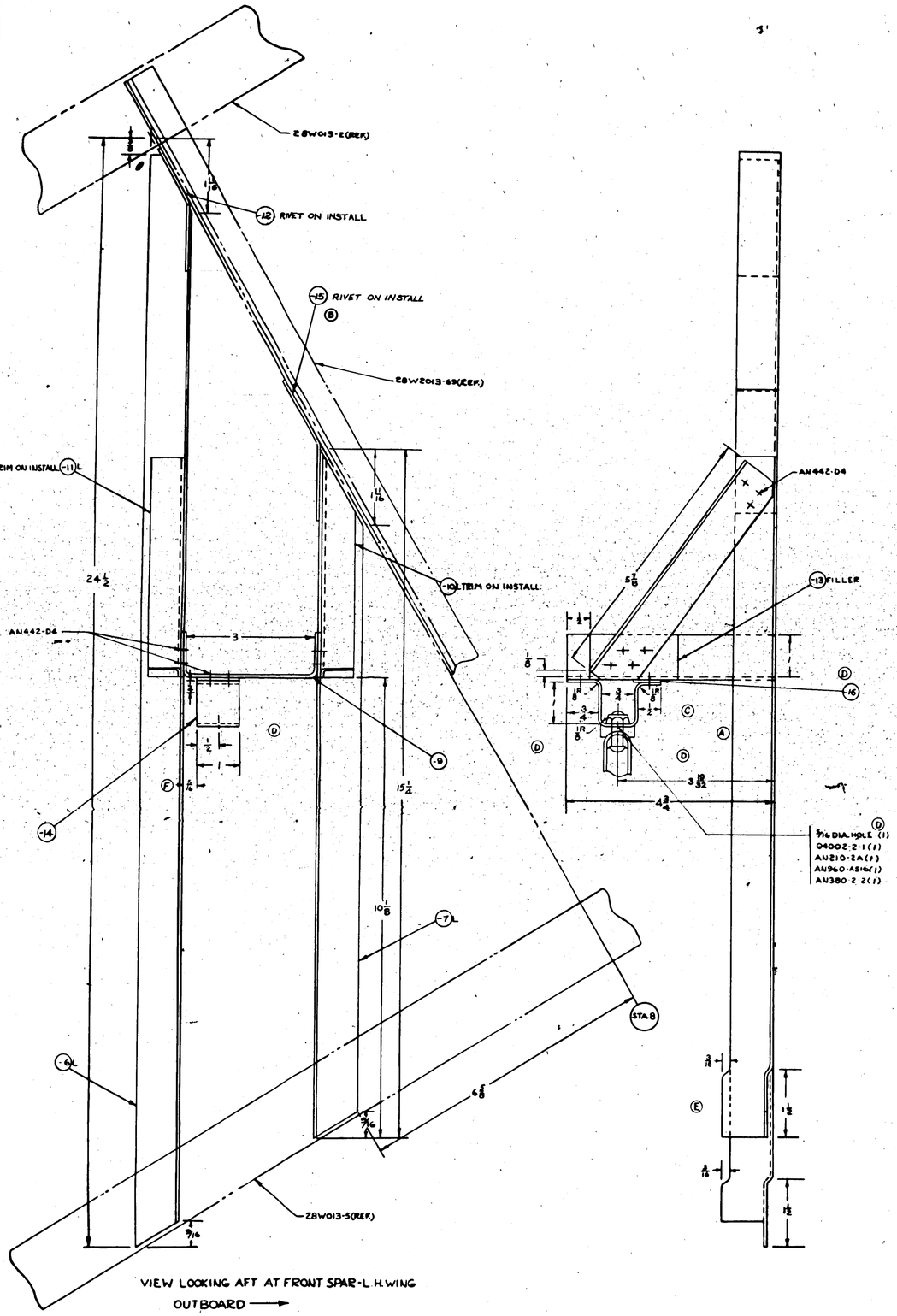
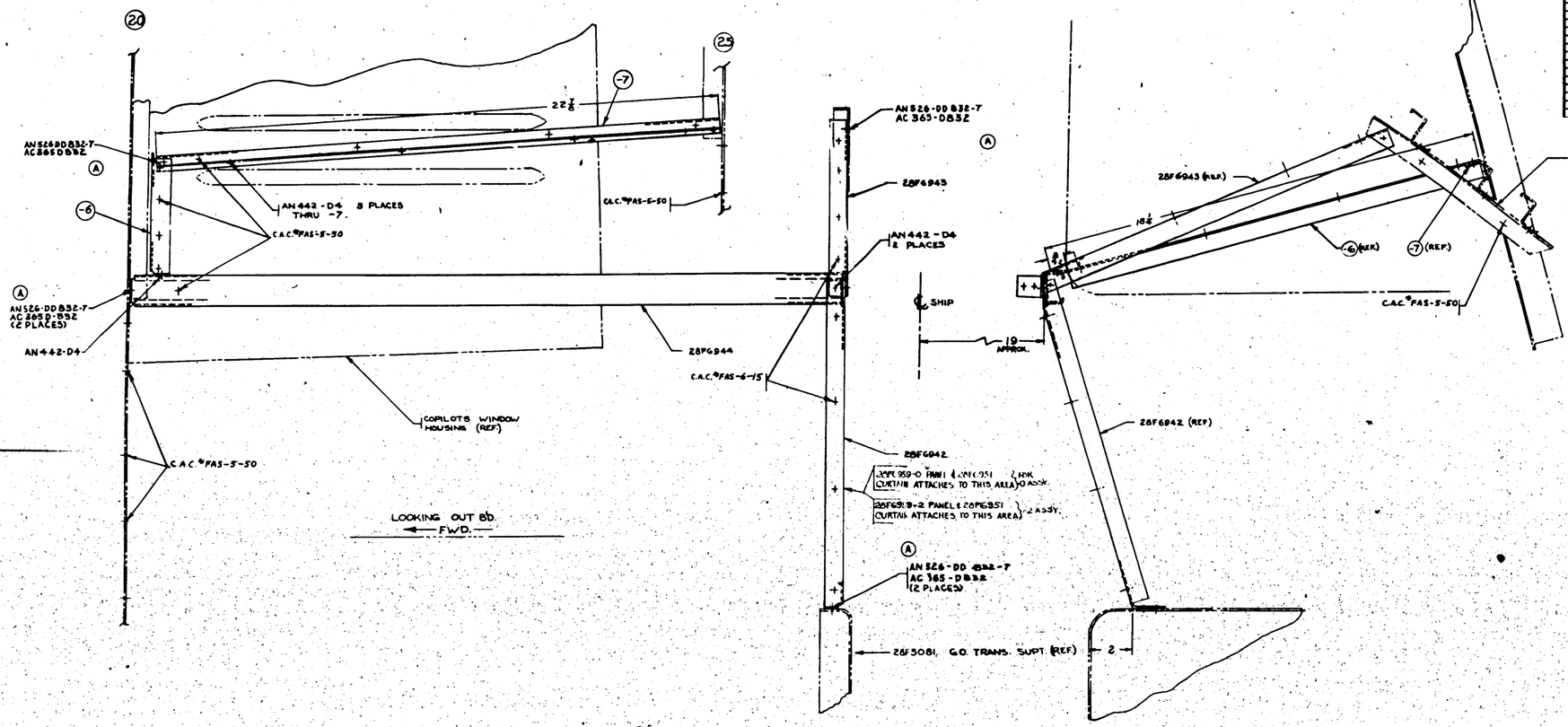
AE	ADDED 28F5106-L (REF)		
AF	ADDED 28F5106-L (REF)		
AG	ADDED 28F5106-L (REF)		
AH	ADDED 28F5106-L (REF)		
AJ	ADDED 28F5106-L (REF)		
AK	ADDED 28F5106-L (REF)		
AL	ADDED 28F5106-L (REF)		
AM	ADDED 28F5106-L (REF)		
AN	ADDED 28F5106-L (REF)		
AP	ADDED 28F5106-L (REF)		
AQ	ADDED 28F5106-L (REF)		
AR	ADDED 28F5106-L (REF)		
AS	ADDED 28F5106-L (REF)		
AT	ADDED 28F5106-L (REF)		
AU	ADDED 28F5106-L (REF)		
AV	ADDED 28F5106-L (REF)		
AW	ADDED 28F5106-L (REF)		
AX	ADDED 28F5106-L (REF)		
AY	ADDED 28F5106-L (REF)		
AZ	ADDED 28F5106-L (REF)		
BA	ADDED 28F5106-L (REF)		
BB	ADDED 28F5106-L (REF)		
BC	ADDED 28F5106-L (REF)		
BD	ADDED 28F5106-L (REF)		
BE	ADDED 28F5106-L (REF)		
BF	ADDED 28F5106-L (REF)		
BG	ADDED 28F5106-L (REF)		
BH	ADDED 28F5106-L (REF)		
BJ	ADDED 28F5106-L (REF)		
BK	ADDED 28F5106-L (REF)		
BL	ADDED 28F5106-L (REF)		
BM	ADDED 28F5106-L (REF)		
BN	ADDED 28F5106-L (REF)		
BP	ADDED 28F5106-L (REF)		
BQ	ADDED 28F5106-L (REF)		
BR	ADDED 28F5106-L (REF)		
BS	ADDED 28F5106-L (REF)		
BT	ADDED 28F5106-L (REF)		
BU	ADDED 28F5106-L (REF)		
BV	ADDED 28F5106-L (REF)		
BW	ADDED 28F5106-L (REF)		
BX	ADDED 28F5106-L (REF)		
BY	ADDED 28F5106-L (REF)		
BZ	ADDED 28F5106-L (REF)		
CA	ADDED 28F5106-L (REF)		
CB	ADDED 28F5



VIEW LOOKING AFT AT FRONT SPAR-L H WING
OUTBOARD →

MAT	ALTERNATES	DATE	BY
A	ALSO 4 PSI MIL-S-5A MF ART CODE		
A	ALSO MIL-S-5A MF ART CODE		
B	ALSO MIL-S-5A MF ART CODE		
C	ALSO MIL-S-5A MF ART CODE		
D	REMOVED -81 (REF.) ADDED QW-1 & QW-2 ADDED -48 REMOVED 1 BEAD OF POLY CHAN 10.1 & 10.2 ADDED AN960-416 W/ AN960-2-2 W/ AN960-2-2 & W/ AN960-2-2 & W/ AN960-2-2 &

LET	ALTERATION	DATE	BY
A	ON FACE OF DWG AN526-DD832-7 CHG'D TO AN526-DD832-7 AC365-D832 (2 PLACES) AN442-D4-4 CHG'D TO AN442-D4 (2 PLACES)		
B	CANCELED - ASSY SAME AS -0 ASSY EXCEPT THAT CAPACITOR REPLACES RESISTOR PER ENGINEERING ORDER -8 REPLACES -0		



PART NO.	DESIGN	MATERIAL	SPEC.	-0 REQ.	-2 REQ.	-3 REQ.	-4 REQ.	-8 REQ.
	PARTS LIST FOR ASSY.							
AN442-D4				2				
AN526-DD832-7 AC365D832				4	6			
				6	5			
CAC*FAS-5-50 *7/16-14 N-2A STUD				21	7			
CAC*FAS-5-50 *7/16-14 N-2A STUD MAY BE PURCHASED FROM UNITED CARR FAST. CORP. CAMBRIDGE, MASS.				24	24			
28F6080-2				1				
28F6959-2 CURTAIN PANEL				1				
28F6951 CURTAIN				1				
28F6944				1				
28F6943				1				
28F6942				1				
-7 V5A357-B338				1				
-6 V5A357-A19A				1				

Note: LOCATION OF FASTENER'S TO BE DETERMINED ON FIRST INSTALLATION. ARROW CHG'D PER ENG. ORDER No. 4629 DATED 5/8/56 FROM DWG # 28F6945 SHT No. 506

-0	PRT-5A	28F6000	
-2	PRT-5	28F6006	
-3	PRT-5A	28F6008	
-4	PRT-5	28F6003	

DRAWING FOR ASSEMBLY	
DRAWN	7/26/56
CHECKED BY	DATE BY
LIST OF SUBSEQUENT ISSUES	SCALE G = 1' 0"
No. 1/32	
STRUCT. CHIEF'S APPROVAL WHERE REQUIRED	

AS NAVY	2P-GP	MATERIAL SPEC.	
HEAT TREAT	FINISH	QUALITY	MARK

NAME: INST. - FURN - RADAR OPERATOR'S CURTAIN SUPP.

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

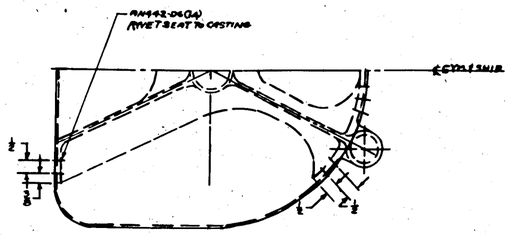
SPEC NONE

SIZE J DWG 28F6945

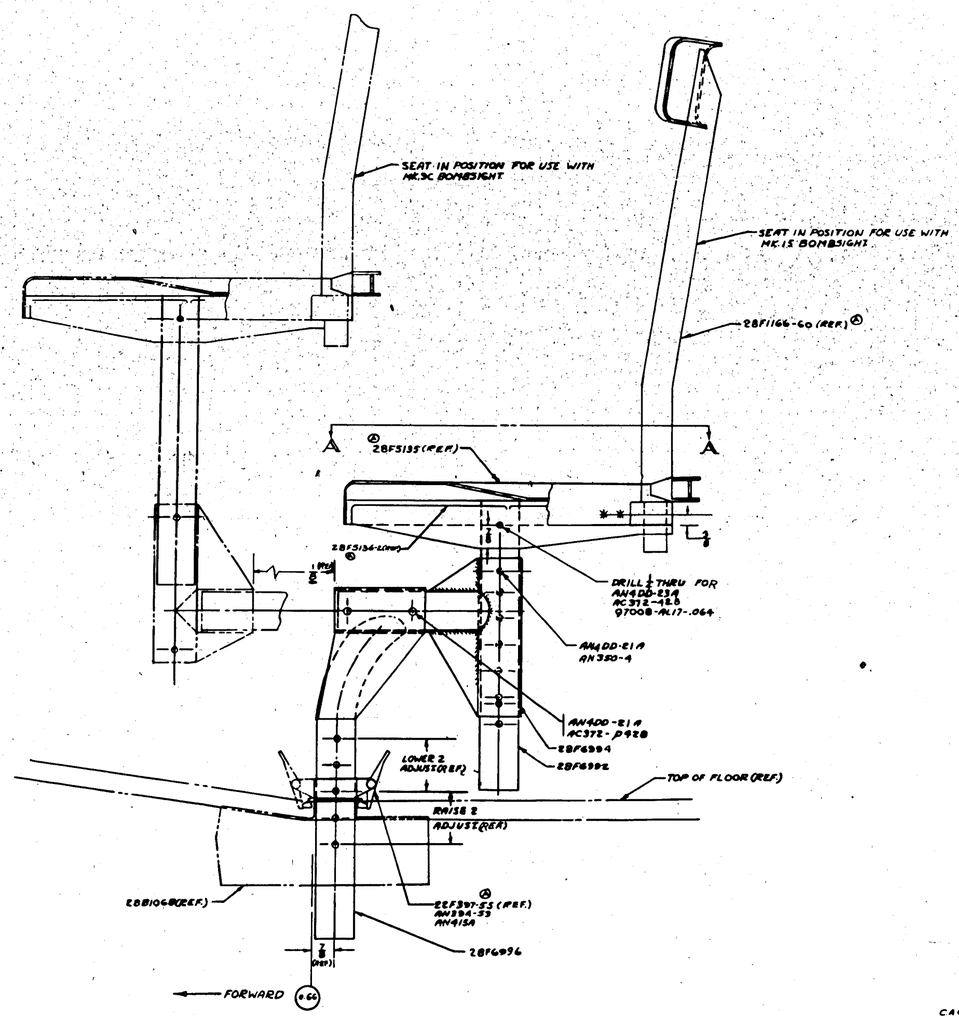
28F6945

H 405

LET	ALTERATIONS	DATE	BY
A	REVISED AS SHOWN PER ECN 13418	5-2-51	LMP



VIEW A-A
SCALE 6"=1'0"



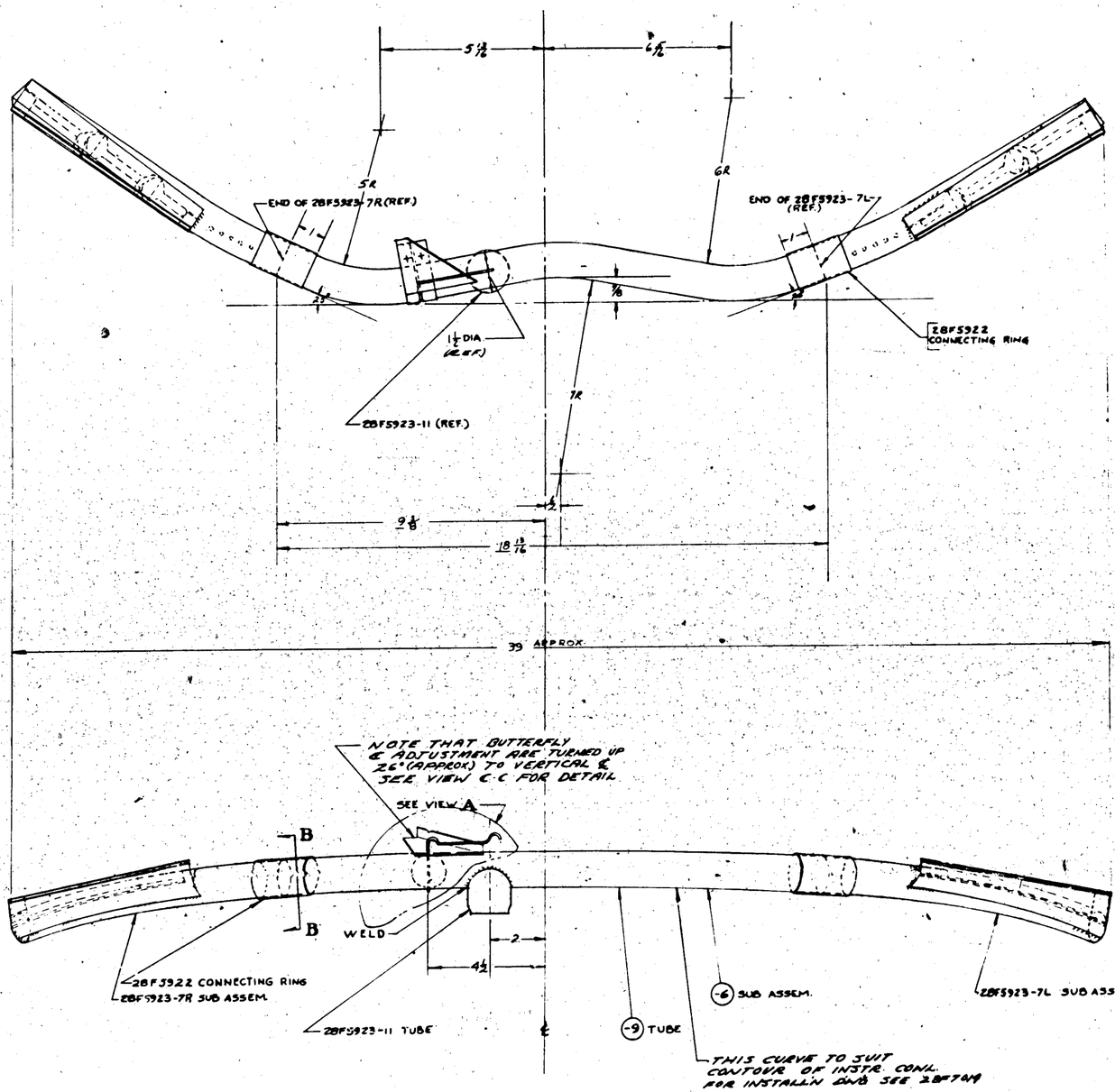
C.A.C. CHG. 126-1

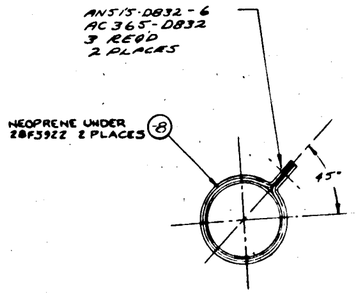
Ⓐ NOTE:
1- THESE PARTS ARE ON B/M OF 28F6138 & RELEASED PER THIS D/WG. - MCR. 126-1
2- ASSEMBLE 28F6186 CASTING & 28F6002 WITH WET PRIME

Ⓐ SEE NOTE #1

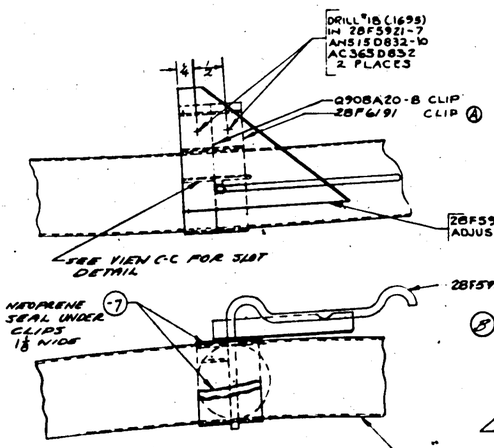
| | | |

LET.	ALTERATION	DATE	BY
A	REPLACED 0908-A20-8 CLIP (REQ. WITH ZBF6191 CLIP (REQ.		
B	ZBF5920 (1) BUTTERFLY INSTALLED (REQ'D)	11-13-91	WELCH
C	.249 THICKNESS WAS .242 W.T. .609 WAS .63	91-93	WELCH

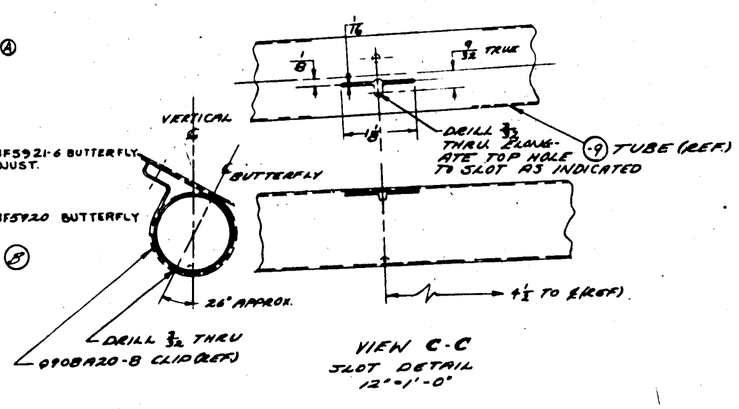




SECTION B-B
SCALE 12"=1'-0"



VIEW A
SCALE 12"=1'-0"
TRUE VIEW



VIEW C-C
SLOT DETAIL
12"=1'-0"

THIS DWG. HAS BEEN RUSH-RELEASED
11-10-91

(-D1878 (1-90)
M.G.R. #221

H 407

LIN CODE	
ZAPC	AN30 I TREATMENT P 27 PRIMER ALUMINIZED PRIMER CADMIUM PLATE

PART NO.	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4	-5
				QTY REQD				
0908A20-8				1	1	1	1	1
AC365D832				2	2	2	2	2
AN515D832-10				1	1	1	1	1
ZBF5920				1	1	1	1	1
ZBF5921-6				1	1	1	1	1
ZBF6191 CLIP				1	1	1	1	1
ZBF5923-11	-9 TUBE .400 x .049 x 4 "A" LG. 44 1/2 T-7R			1				
	-6 SUB ASSEM.				1	1	1	1
AC365D832				6				
AN515D832-6				6				
-8	FBV-5	ZBF7014	1					
-D	FBV-5D	ZBF7014	1					
-C	FBV-5A	ZBF7014	1					
ZBF5923-7R	SUB ASSEM			1				
ZBF5923-7L	SUB ASSEM				1			
ZBF5922				2	2	2	2	2
ZBF7013-D	1/16 x 2 x 9 1/8	NEOPRENE	N-11	6				
-7	1/16 x 1 1/4 x 9 1/8	NEOPRENE	N-11		6	6	6	6
ZBF7013-4	SUB ASSEM			1	1	1	1	1

AS			11-24-91	Gordon	JFR	Gordon		
NAVY NONE	ZP - AP	PECEN	11-24-91			11-26-91		
HEAT TREAT	FINISH	DRAFT	DESIGN	STRESS	SET	APPROVED	DATE	

NAME TUBE ASSEM - FURN'S WINDSHIELD DE-FROSTER

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | 28F7013

K

MAT	DESCRIPTION	DATE	BY
A	GROMMET - 1.430" I.D. PER MIL-G-45205 - BRASS (ALT) WITH -15		
	TAPE ASSY, 20" LONG PER DWG -15 FROM -5		
	ASSY, ARMED DETAIL OF -15 ASSY		
	ASSY, WEBBING MISC		
B	BOX, DUCT WOOD (1.25 BRD. WT)		
	BALSAM (1.5)		
C	ADH, CAC NO. 10 PER AC 56-3 TH-3		
	NOTE 1, 2-16, -22 & -28, & NOTES ABOVE MAT'L REQ. SEE NOTE #5		
	SEE NOTE CARD		
D	CLOTH, DUCK, COTTON, 8.00 OZ. PER SQ. YD. (NOMINAL) PER SPEC. DOD-C-30 TYPE I, CLASS 1 (SEE NOTE #4)		
	MARKER, CLOTH, MEDIUM DUTY, ASSY PER -3 FROM REPRO ON THIS DWG.		
E	WEBBING, NYLON, 1.50" W, 0.060" TH, 4,000 LB. MIN. BREAK STRENGTH, TYPE III, CLASS 1, OLIVE DRAB, PER MIL-W-4088 (SEE NOTE #4)		
	THREAD, NYLON, TYPE I, SIZE E, PER V-T-295 (SEE NOTE #4)		
	THREAD, NYLON, TYPE I, SIZE FF, PER V-T-295 (SEE NOTE #4)		
	CORD, NYLON, 0.250" DIA, 550 LB. MIN. BREAK STRENGTH, TYPE III, PER MIL-C-5040 (SEE NOTE #4)		

MAT	ALTERATIONS	DATE	BY

| | | |

LOCATE ON AFT FACE OF BULK'D

LOCATE ON FW'D FACE OF BULK'D

ANGLE 18¼ LONG

ITEM NOMENCLATURE REVISED AS TO CLEAR GUSSET

PICK UP EXISTING RIVET PATTERN AS SHOWN ON 28B11124

A

A

B

B

NOTE:-
SNAP FASTNERS IN DRAFT CURTAIN MUST LINE UP WITH STUDS IN BULK'D.

LOCATE ON FW'D FACE OF BULK'D

LOCATE ON AFT FACE OF BULK'D

Ⓓ Q1601-22, OR AC225-8 POST
AN340-8 NUT
AN935-8 WASHER

28F7015 CURTAIN (-0 ASSY. ONLY)
28F7015-2 CURTAIN (-2 ASSY.)

LOCATE ON AFT FACE OF BULK'D

LOCATE ON FW'D FACE OF BULK'D

LOCATE ON FW'D FACE OF BULK'D

Ⓔ MATERIAL NOTE:
1 - MATERIAL FOR -6 MAY BE:
(a) Y-S-A377 a 18, OR
(b) 24S-T3 a 18, AL. ALLOY PLATE, SPEC. 00-A-354-C

HEAVY DOTTED LINES INDICATES CURTAIN ON FORWARD FACE OF BULK'D

AIRPLANE

VIEW LOOKING FWD
STA. 1.0

Ⓓ Q1601-21 OR AC225-7 POST
AN340-8 NUT
AN935-8 WASHER

1⅛

E5D1100-15 (REF.)

FORWARD

SECTION A-A
SCALE 12"=1'-0"

Ⓕ (REF.)

AN442AD5 RIVET

FORWARD

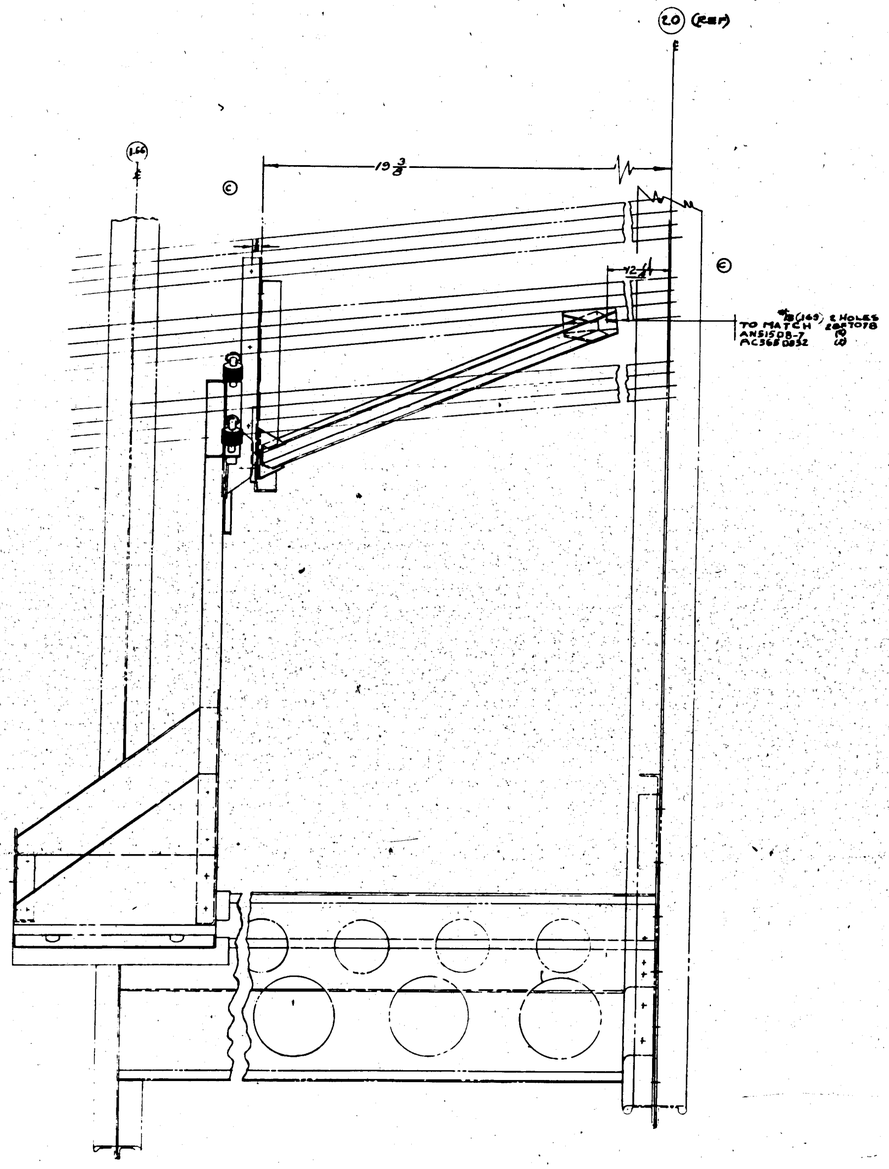
SECTION B-B
SCALE 12"=1'-0"

NOTE:
SNAP FASTNERS IN DRAFT CURTAIN MUST LINE UP WITH STUDS IN BULK'D
⊕ STUDS ON AFT SIDE OF BULK'D
+ STUDS ON FW'D SIDE OF BULK'D

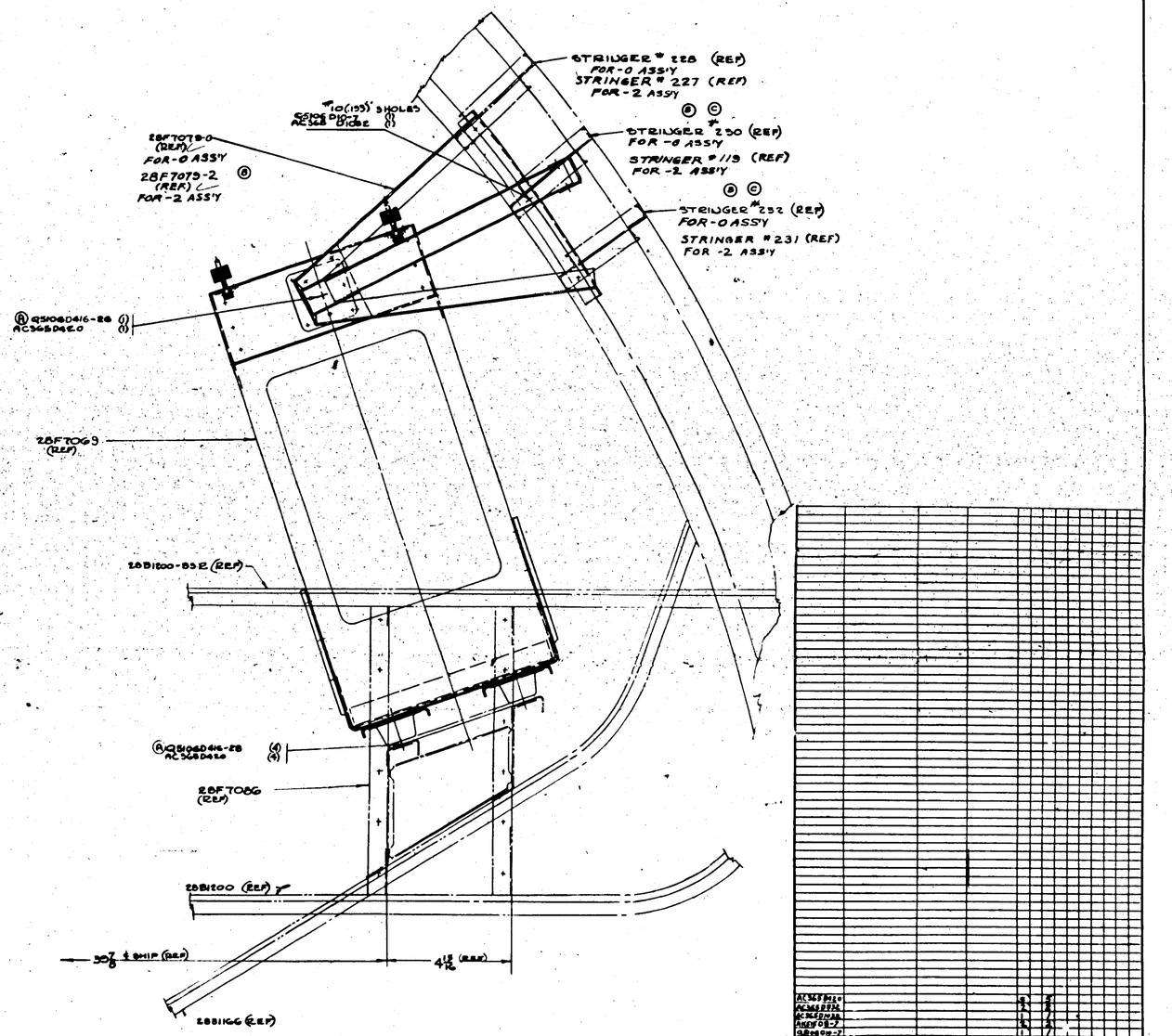
LTR	ALTERATIONS	DATE	BY	LTR	ALTERATIONS	DATE	BY
	ADDED QUAN. 2 HOLES TO [illegible]						
	[illegible]						
	[illegible]						
	[illegible]						
A	[illegible]						
B	[illegible]						
C	[illegible]						
D	[illegible]						
E	[illegible]						

Q1601-22	(SEE NOTE)			2			
Q1601-21	(SEE NOTE)			2			
AN935-8				2			
AN340-8				2			
AN960-8				2			
AC225-8	(SEE NOTE)			2			
AC225-7	(SEE NOTE)			2			

Note: Drwg. Rev. Released 10-27-41



·VIEW LOOKING OUT B'D ST'B'D SIDE



·VIEW LOOKING F'WD· ST'B'D SIDE
FOR -0 & -2 ASS'YS

LET	ALTERATION	DATE	BY
	CHANGED TO 1 SH. FILE 8"		
	28"W, Q3108D416-28 TO		
	AS1060A12-28		
	Q3108D416-28 TO		
	AS1060A12-28		
A	Q3108D416-28	11 MAY 57	
	(ONE ASSY CHG'D 28"W TO 24"W PER DCN-A		
	5 RIVETS-2 AN426AD3-3 DEL'D PER DCN-A		
	4 RIVETS-2 AN426AD3-3 DEL'D PER DCN-A, ONE		
	P/N FILE-ASSY CHG'D FROM 28A1166 TO		
	28B1166, 1 P/N 28B1166-501, 2 P/N 28B1166		
	-503 TO MFG. PURP. ONLY. ADDED 1 P/N 28B1166		
	-505 TO MFG. PURP. ONLY. ADDED 1 P/N 28B1166		
C	REVISED 3 1/2 DIM. CHG'D, & 3/8		
	TO 1 7/8, 2 HOLES TO 3, PER C.A.R.		
	-3 ASSY CHG'D FROM 28A1166 TO 28B1166		
	-501 & -503 TO -501, NO WT. CHG.		
D	CALC WT. ADDED 2.33 LB.		

LET	ALTERATION	DATE	BY
	CHANGED TO 1 SH. FILE 8"		
	28"W, Q3108D416-28 TO		
	AS1060A12-28		
	Q3108D416-28 TO		
	AS1060A12-28		
A	Q3108D416-28	11 MAY 57	
	(ONE ASSY CHG'D 28"W TO 24"W PER DCN-A		
	5 RIVETS-2 AN426AD3-3 DEL'D PER DCN-A		
	4 RIVETS-2 AN426AD3-3 DEL'D PER DCN-A, ONE		
	P/N FILE-ASSY CHG'D FROM 28A1166 TO		
	28B1166, 1 P/N 28B1166-501, 2 P/N 28B1166		
	-503 TO MFG. PURP. ONLY. ADDED 1 P/N 28B1166		
	-505 TO MFG. PURP. ONLY. ADDED 1 P/N 28B1166		
C	REVISED 3 1/2 DIM. CHG'D, & 3/8		
	TO 1 7/8, 2 HOLES TO 3, PER C.A.R.		
	-3 ASSY CHG'D FROM 28A1166 TO 28B1166		
	-501 & -503 TO -501, NO WT. CHG.		
D	CALC WT. ADDED 2.33 LB.		

PART NO.	STOCK	MATERIAL	SPEC	LIST MATERIAL REQ'D -0	-2	-3	-4	-8
AC365D832-0				2	2			
AC365D834				2	2			
AC365D838				1	1			
AN470B6-7				3	3			
Q3108D416-7				1	1			
Q3108D416-28				1	1			
A Q3108D416-28								
28F7079-2								
28F7025-0								
28F7068				1	1			

PARTS LIST FOR ASSY.

-2	28F7079	28F7063	
-0	28F7078	28F7062	
DWG NO.	MODEL	NEXT ASSY	USE

REQUIREMENTS FOR ASSEMBLY

REPLACED — REPLACED BY — SPEC NO.

LIST OF SUBSIDIARY RELEASE — SHEET 6 SH 1-6

STOCK PART NUMBER — STOCK SIZE

MCR-1886, SM 76 - 01 & 04
C-30977- 01-150

A.G.					
NAVY					
HEAT TREAT	FINISH		DRAFT	ENGINEER	DATE

SPEC NUMBER

SIZE	CODE IDENT NO.	DWG NO.
J	81205	28F7068

SCALE — WEIGHT — SHEET

R

H 410

LET	ALTERATIONS	DATE	BY
A	REMOVED SHELL POST & HOLE IN INBOARD PORTION OF -7 ADDED VIEW "A-A"	4-6-42	
B	Q4303D-4 WAS Q4303D8		
C	C'T'S'K NOTE #5 FOR #X 7/64 DIA. WERE BB-2 3/8 Q5105D10-6(10) WAS Q5105D6-4(8) Q5105D10-6(8) WAS Q5106D10-6(8) AC365D1032-6(8) WAS (10) Q5105D10-8(4) WAS Q5106D10-8(4) Q5105D10-9(4) WAS Q5106D10-9(4) AC365D1032-8(4) WAS (6) Q5105D10-8(4) WAS Q5106D10-8(4) Q5105D10-7(4) WAS Q5106D10-7(4) AC365D1032-7(4) WAS (6)	4-16-42	
D	ADDED NOTE #5 HEADS TO BE ON INSIDE IN BOARD PORTION OF -7 & -7 TRAY ASSY. ADDED -7 TRAY ASSY.	4-16-42	
E	REVISED END VIEW OF -7 TO CONFORM WITH FRONT & REAR VIEWS. NO WT. CHG.	4-16-42	
F	ADDED DIM. "A" NO WT. CHG.	4-23-42	
G	ADDED "C" DIM. NO WT. CHG.	4-23-42	
H	DELETED "A" DIM. NO WT. CHG.	5-2-42	
J	DELETED A-A, WAS 3/16 R, WT. CHG. NEG.	5-2-42	
K	IN RUN, ADD -2 REQ'D AS KIT WITH "INBOARD" ASSY. AS PART ASSY WITH "OUTBOARD" ASSY.	5-20-42	
	PART 28F7077 WAS 28F7073 WT. CHG. ADDED	5-20-42	

E.O. #A-31581
E.O. #A-30965
E.O. #A5E940
E.O. #45374

3 #150 PHG LORD MOUNTS (B) REQ'D

Ⓑ Q4305D-4 SPACED APPX. 1 APART HEADS TO BE ON INSIDE

28F7020 (2)

28F7073

28F7077

Ⓐ 3/8 DIA. 2 PLACES IN SHOCK MOUNTS TO MATCH HOLES IN 28F7075 L & R (REF)

Ⓒ #10 (193) 6 HOLES C'S'K 100° X 3/8 D Q5105D10-6 (6) AC365D1032-6 (6) HEAD TO BE ON INSIDE

Ⓒ Ⓓ #10 (193) 8 HOLES C'T'S'K 100° X 3/8 DIA. Q5105D10-6 (8) NOTE 1 HEADS TO BE AC365D1032 (8) ON INSIDE

3 5/8 TO ℄ (REF)

-6 (REF)

Ⓐ VIEW "A-A"
TO BE SYMETRICAL ABOUT ℄

Ⓒ #10 (193) 4 HOLES C'S'K 100° X 3/8 D Q5105D10-6 (4) Ⓒ AC365D1032 (4)

Q4305D4

-7

28F7075 L/R

1 DIA. HOLE

Ⓑ Q4305D-4 SPACED AS SHOWN HEADS TO BE ON INSIDE

NOTES-
Ⓚ 1-MAT'L FOR -7 MAY BE-
(A) Y-6-A17T X 8 1/2, OR
(B) K1288 X 8 1/2, AL AL EXTR, SPEC QQ-A-334-T.

LORD SHOCK MTS #150 PHG 5

Q5105D10-6 16
Q5105D10-7 6
AC365D1032 18

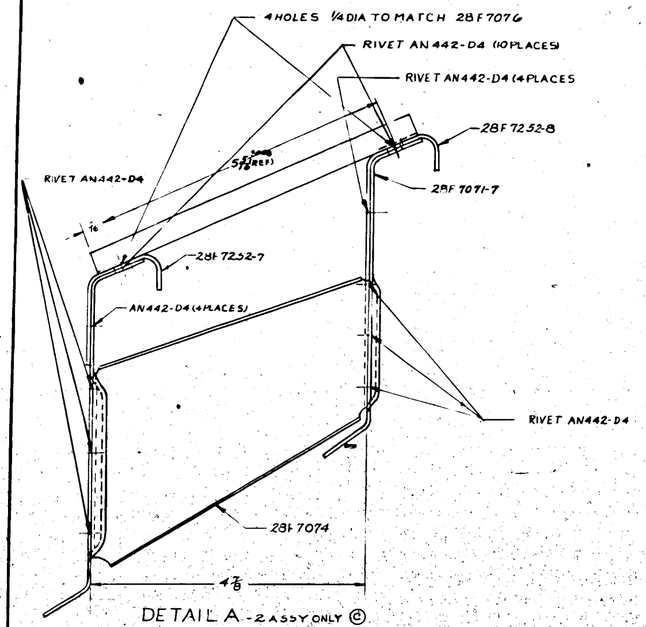
Q4305D-4 8

| | | |

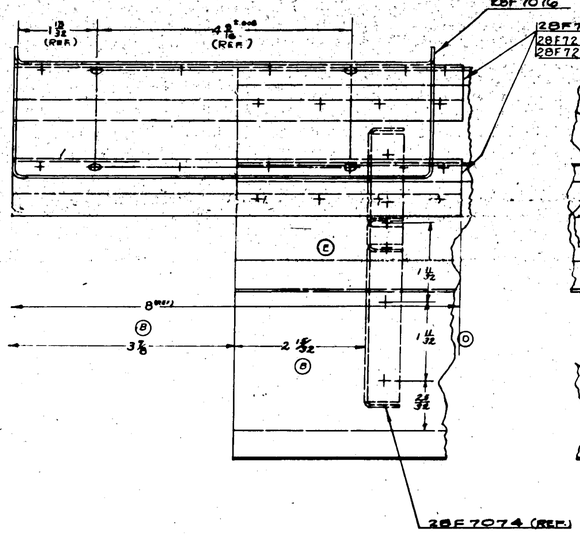
MFR	ALTERATION	DATE	BY

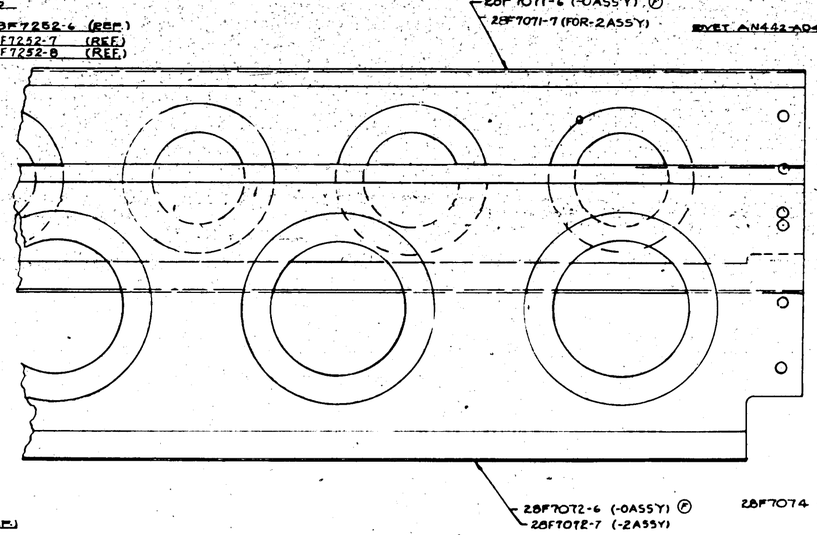
MFR	ALTERATION	DATE	BY
A	ADDED DIM. 4 7/8 & 4 7/8 W/CHG NO	8-2-41	VAN
B	ADDED DIM. A(REF.) 3 1/8 & 2 1/16		
	NO WT CHG	8-5-41	VAN
C	CREATED D-ASSY ADDED		
	DETAIL "A" WT CHG NO	8-8-41	VAN
D	ADDED DIM. A 1 7/16, 1 9/32 DIA & 9/32		
	NO WT CHG	8-9-41	VAN
E	ADDED DIM. 5/16 NO WT CHG	8-13-41	VAN
F	DEL PART'S (1) 28F7071-8, 28F7074		
	-6 (1 REQ'D) ADD PARTS 28F7074, 28F7252-8		
	(2 REQ'D) ADD 28F7252 NO WT CHG	8-27-41	VAN

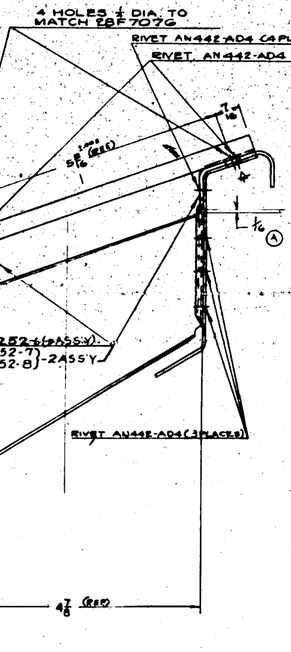
E.O. A28084-G
E.O. A28085A-
E.O. A28220-D
ALL E "AN-"
E.O. B0080-
E.O. B0082-



DETAIL A - 2 ASSY ONLY (C)





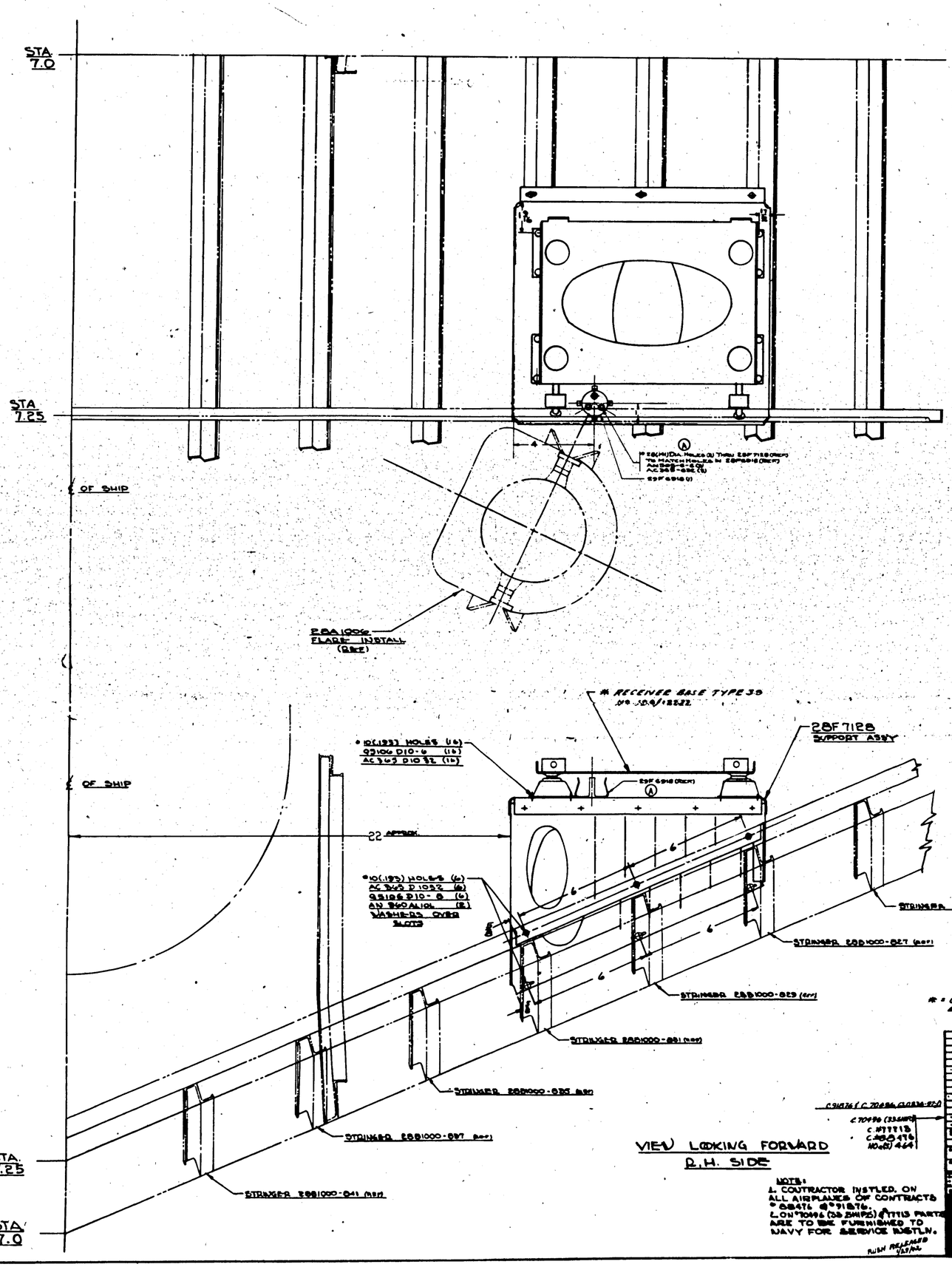


NOTE: ALL RIVETS AN442-AD4 UNLESS OTHERWISE NOTED

| | | |

LTR	ALTERATIONS	DATE	BY	LTR	ALTERATIONS	DATE	BY
A	ADDED 2 EA A360 BL. ASSEMBLIES & 2 EA A360 BRACKETS PER S/A 6A8016						
	ADDED CORRECT W.T.	10-18					

A3T14G



VIEW LOOKING FORWARD
P.H. SIDE

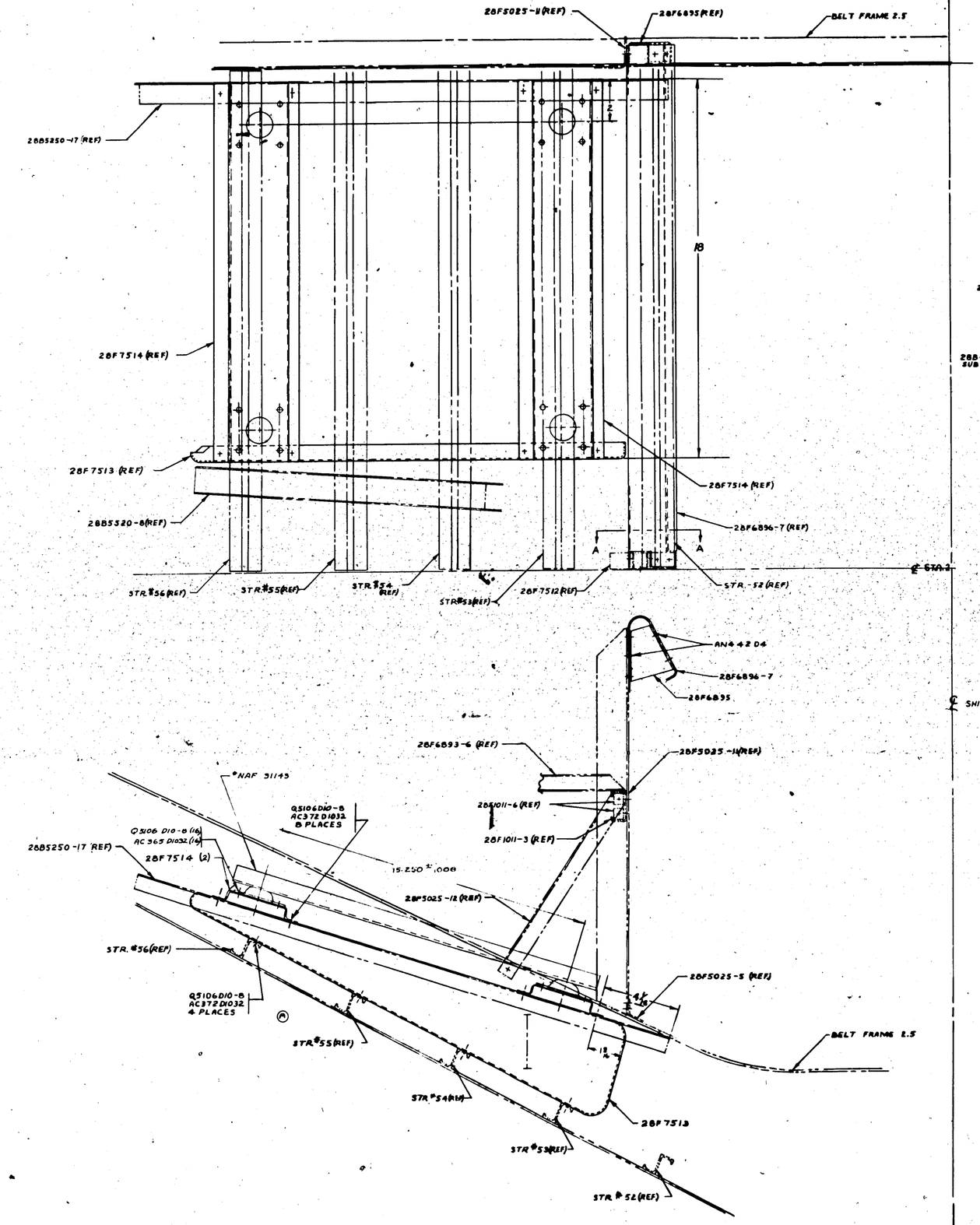
NOTE:
1. CONTRACTOR INSTLED. ON ALL AIRPLANES OF CONTRACTS # 88476 & #91876.
2. ON #70996 (33 SHIPS) & THIS PARTS ARE TO BE FURNISHED TO NAVY FOR SERVICE INSTLN.

RUSH RELEASED 1/31/44

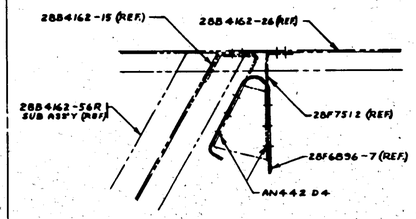
C 91876 & C 70996 (CLOSED-REF)
C 70996 (33 SHIPS)
C 91876
C 88476
MOD 464

* = GOVT FURN EQUIP

PART No.	STOCK	MATERIAL	SPEC	QUAN



NOTE: FOR STRINGER REFERENCE SEE 28B1007



VIEW A-A

NOTE: FOR INSTALLATION OF RADAR OPERATOR'S SEAT SEE DWG. 28F6893-2.

NOTE: * DENOTES GOV'T FURN. EQUIPMENT.

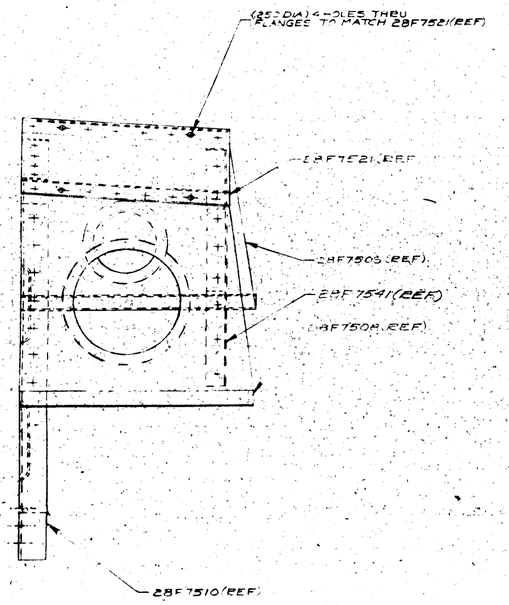
LET	ALTERATIONS	DATE	BY	LET	ALTERATION	DATE	BY
A	ADDED (NAF 31143, Q5106 D10-8 (16), AC365 D1032 (16) & NOTE # DENOTES GOVT FURN. EQUIPMENT WAS 2.5R.	5-31-43	WELLS				

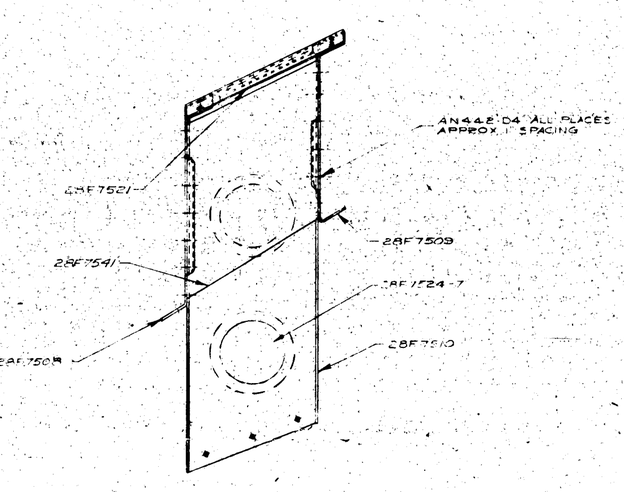
Eo. 82034
MAR 8 1944

M.C. 148-2

| | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY





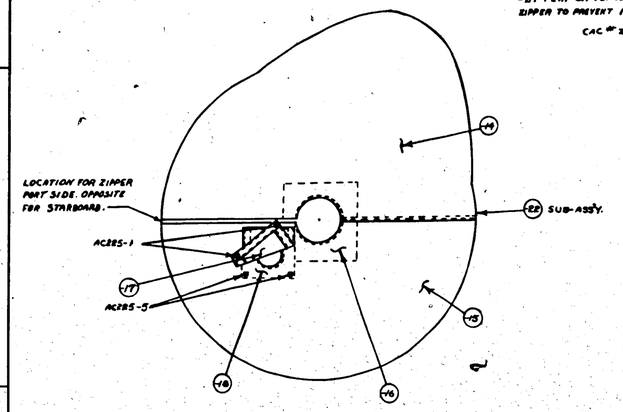
NOTE:

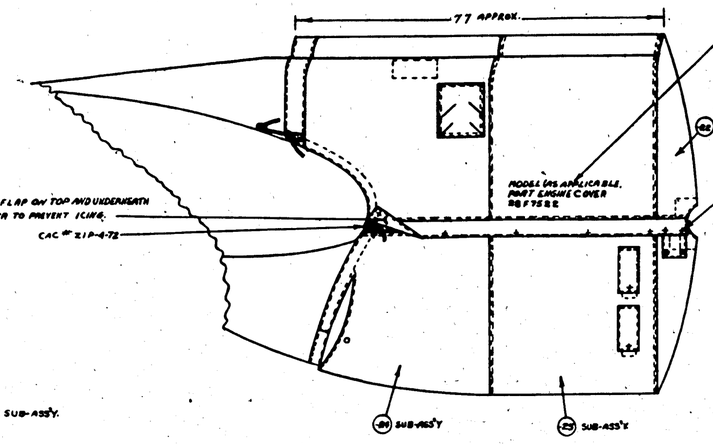
WHEN RIVETING 28F7521 (REF) LEAVE 1/8" CLEARANCE FROM ℄ OF HOLES.

MC 156-4

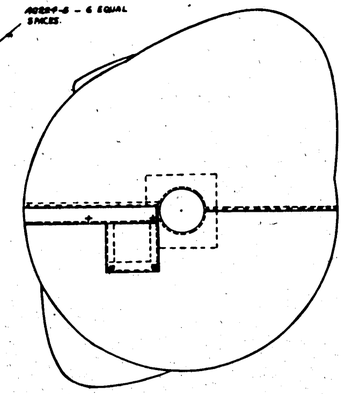
APPROVED FOR TOOLING BY

| | | | | | | |

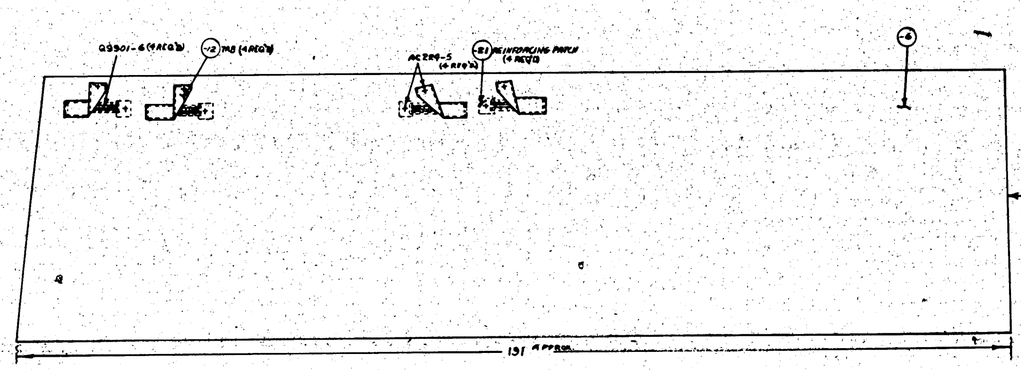


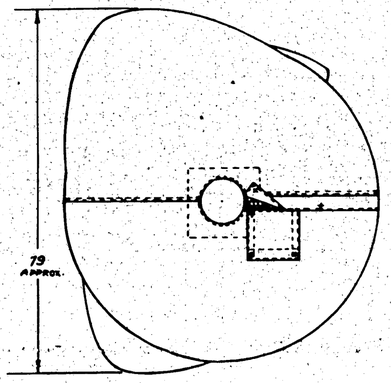


VIEW LOOKING OUTBOARD

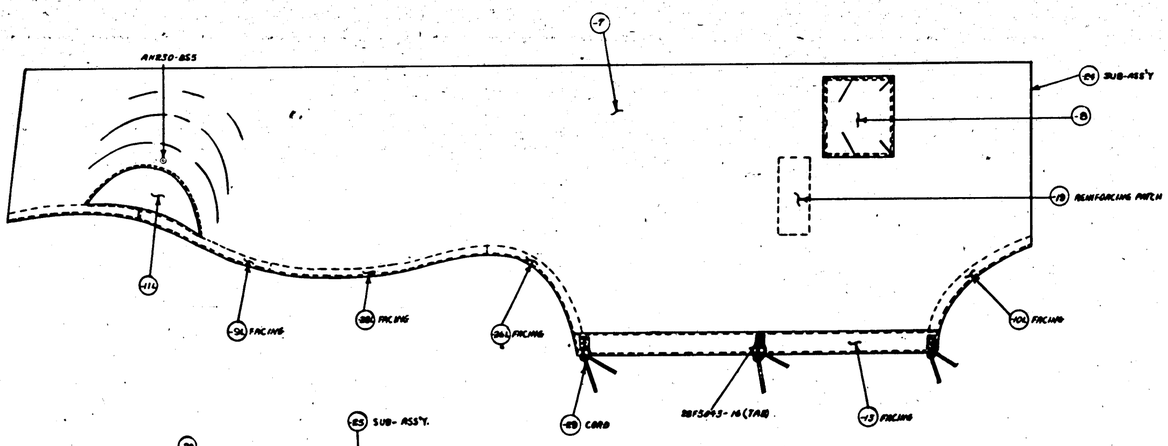


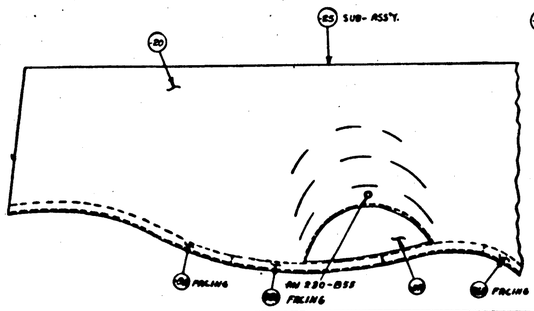
FRONT VIEW PORT





FRONT VIEW STARBOARD





NOTE: -20 IDENTICAL TO -7 EXCEPT AS NOTED.

NOTES:
1. MATERIAL FOR -6 THROUGH -28 TO BE C.A.C. SPEC. 20 oz. CANVAS TREATED IN ACCORDANCE WITH NAVY SPEC. 2404 OR EQUIVALENT.
2. TAB -6 MAY BE PURCHASED FROM - PANTASOTE CO., INC. NEW YORK N.Y.
3. COVER TO BE CAMOUFLAGED TO MATCH THE CAMOUFLAGE SCHEME OF THE AIRPLANE.
4. ALL STENCILING TO BE ON INSIDE OF COVER.
5. C.A.C. CORD #16 MAY BE PURCHASED FROM WESTERN METAL & SUPPLY CO. SAN DIEGO, CALIF., VENDOR'S NO. 346 DIA. SASH CORD, OR EQUIV.
6. C.A.C. ZIP-4-72 MAY BE PURCHASED FROM CROWN FASTENER CORP. NEW YORK, N.Y. VENDORS NO. 10-TELG, JUMBO EXTRA HEAVY DUTY ZIPPER WITH SEPARATOR LESS LOCK OR ALTERNATE (SEE NOTE 9)
7. THREAD STITCHING IF DESIRED TO BE IN ACCORDANCE WITH SPEC. 2404
8. ALTERNATE MATERIAL FOR C.A.C. ZIP-4-72 MAY BE C.A.C. SPEC 4-72 PURCHASED FROM TALON INC. MERIDEN, CONN. (VENDORS NO. TALON 22-G SEPARATING ZIPPER WITH "DEAN SLIDER" QUICK ACCESS TYPE.

C-9135B5 (-18-21) C-9187C5-96 (-24 (-28-16))

APPROVED FOR TOOLING BY V Quinn 5-18-43

MAT	DESCRIPTION	SIZE	QTY

MAT	DESCRIPTION	SIZE	QTY
A	ANGLE, MITE 3/4" ALUM. EXTR. MATERIAL 2SO SAC. (SPEC. TO BE AS SHOWN ON SPEC. A-13 PARAGRAPH ---- ETC.		

PART NO.	DESCRIPTION	MATERIAL	SPEC.	QTY -0	-1	-2	-3	-4	-5
-6	TAB			1					
-8B	3/4 x 88	CAC FAB-6	CEMENT	8					
-8M	4 x 36	CAC FAB-6	2404	1					
-9M	4 CORD			1					
-9C	36 1/2			1					
-13	7 1/4			1					
-15	5 x 27			1					
-16	14 x 26			1					
-16A	7 x 26			1					
-34A	14 x 36			1					
-8	18 x 24	CAC FAB-6	2404	1					
-24	SUB-ASS'Y								
DESIGNATES	TAB			1					
AN 230-BSS	GROMMET			1					
-8B	3/4 x 88	CAC FAB-6	CEMENT	8					
-8BA	6 x 88	CAC FAB-6	2404	1					
-8AA	4 x 31			1					
-13	7 1/4			1					
-15	5 x 27			1					
-16A	14 x 26			1					
-16A	7 x 26			1					
-34A	14 x 36			1					
-8	18 x 24			1					
-7	36 1/32	CAC FAB-6	2404	1					
-24	SUB-ASS'Y								
AN 931-6	ZIPPER			4	4				
AC 254-6	FASTENERS			6	4				
-8A	3 x 88	CAC FAB-6	2404	2	2				
-11B	7 1/4			2	2				
-8A	24 x 88			1					
-8A	30 x 88	CAC FAB-6	2404	1					
-28	SUB-ASS'Y				1				
AC 285-6	FASTENERS			2	2				
AC 285-1	FASTENERS			2	2				
-8B	18 x 8	CAC FAB-6	2404	1	1				
-17	1 1/8 x 12			1	1				
-8A	18 x 18			1	1				
-15A	30 x 88			1	1				
-11A	36 x 88			1	1				
-16	36 x 88			1	1				
-21A	24 x 88	CAC FAB-6	2404	1	1				
-23	SUB-ASS'Y				1				
AC 254-5	FASTENERS			3	3				
AN 960-8	TAPLOCK	CAC ZIP-4-72 OR EQ.		1	1				
-14B	24 x 72	CAC FAB-6	2404	1	1				
-34	SUB-ASS'Y				1				
-36	SUB-ASS'Y				1				
-40	SUB-ASS'Y				1				
-7	SUB-ASS'Y					1			
-20	SUB-ASS'Y					1			

DRAWN	AS NOTED		
TRACED			
CHECKED			
ENGINEER			

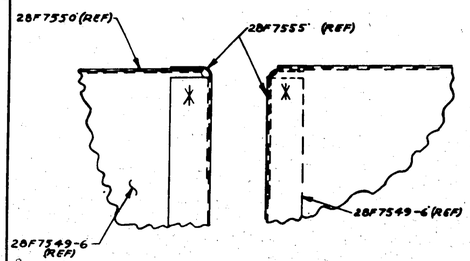
COVER-FURNS-ENGINE

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

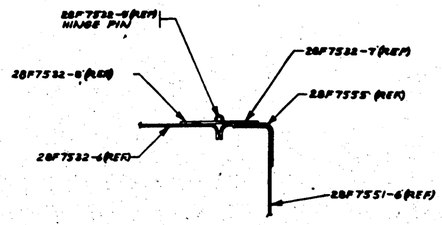
SIZE J | DWG. NO. 28F7522

H 416

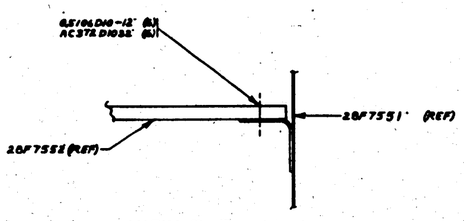
R 6/43



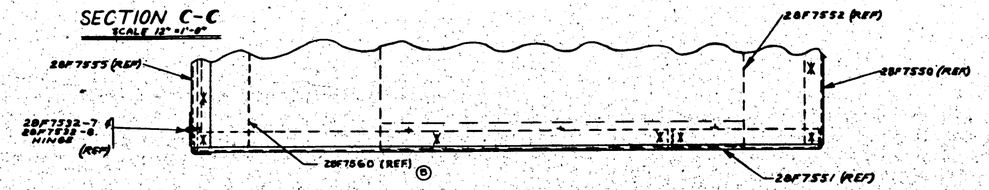
DETAIL B
SCALE 12"=1'-0"

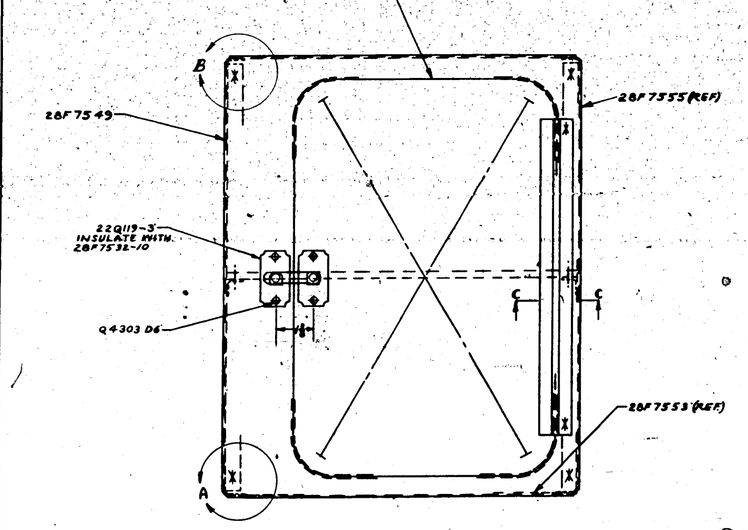


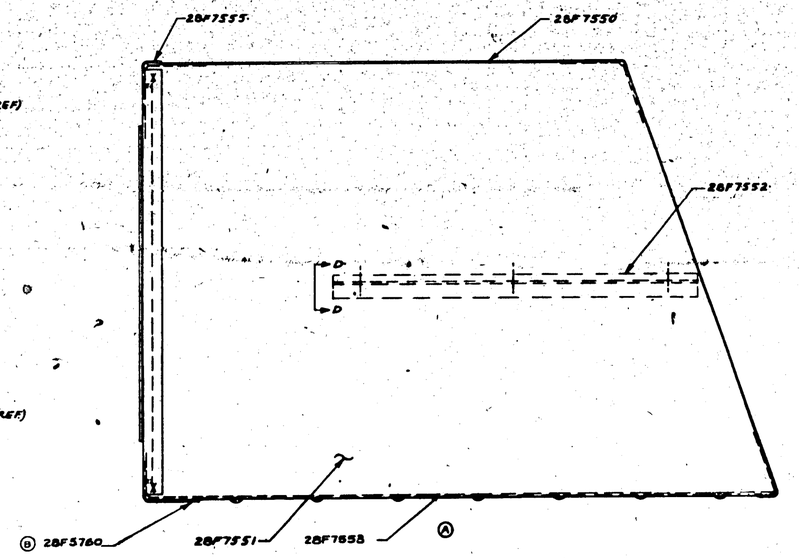
SECTION C-C
SCALE 12"=1'-0"

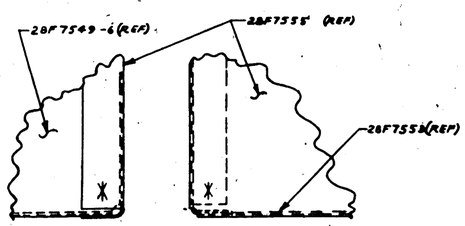


VIEW D-D
SCALE 12"=1'-0"









DETAIL A
SCALE 12"=1'-0"

GENERAL NOTES
1. SPOT WELD ASSEMBLY
ASSEMBLE AS SHOWN, SPOT WELD MATCHING PARTS (EXCEPT AS NOTED) APPROX. 1" SPACING.
2. RIVETS-SS MAY BE USED IN PLACES INACCESSIBLE FOR SPOTWELDING.
3. FINISH LOCKER MINUS DOOR, SEE SPEC. 21Q13-1, 2, 3 & 4 AFTER SPOTWELDING.
4. X DENOTES SPOTWELDS

MCR152-A

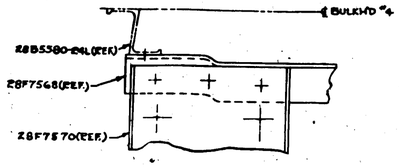
APPROVED FOR TOOLING BY
V Burns 8-19-43

MAT	DESCRIPTION	SHAPE	SIZ
A	ALCLAD SHEET 24 S/A 24ST		
	SPEC. NO.		
	ALCLAD SHEET 24 S/A 24ST		
	SPEC. NO.		

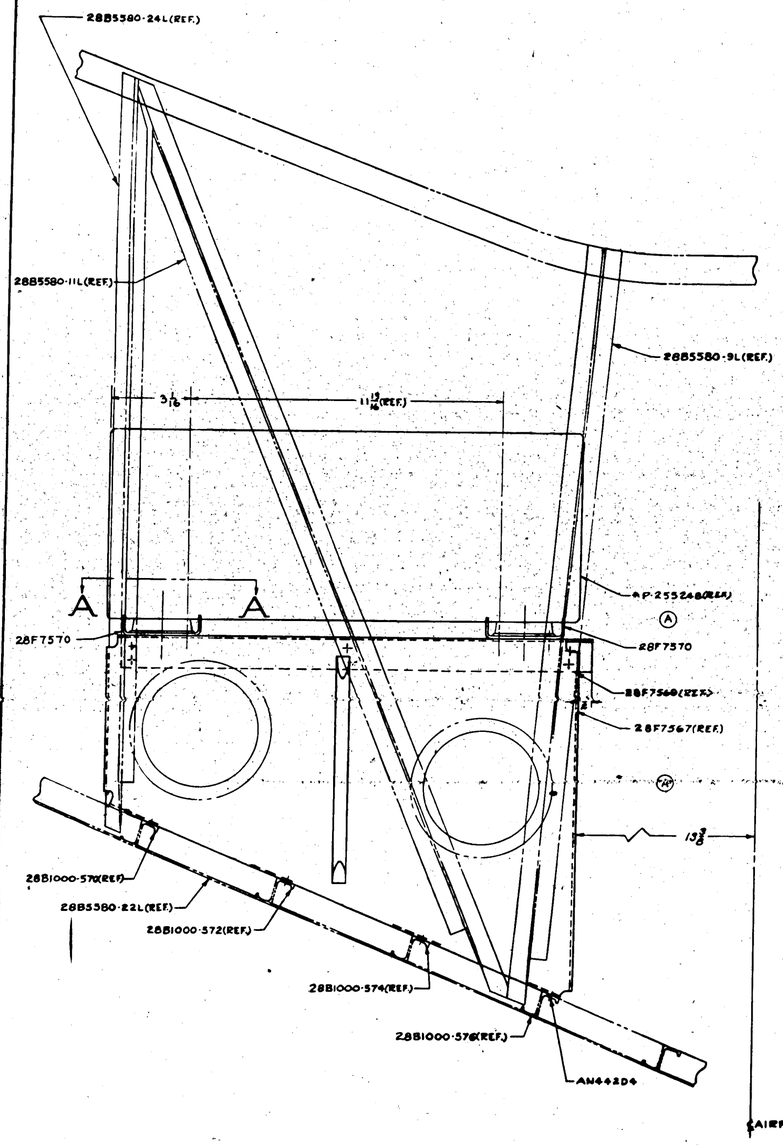
NO.	DESCRIPTION	DATE	APP.
	ADDED SHEET 2		
	ADDED SHEET 3		

ASS'Y-FURNS-FOOD LOCKER
CONSOLIDATED AIRCRAFT CORP.
SIZE J
28F7554

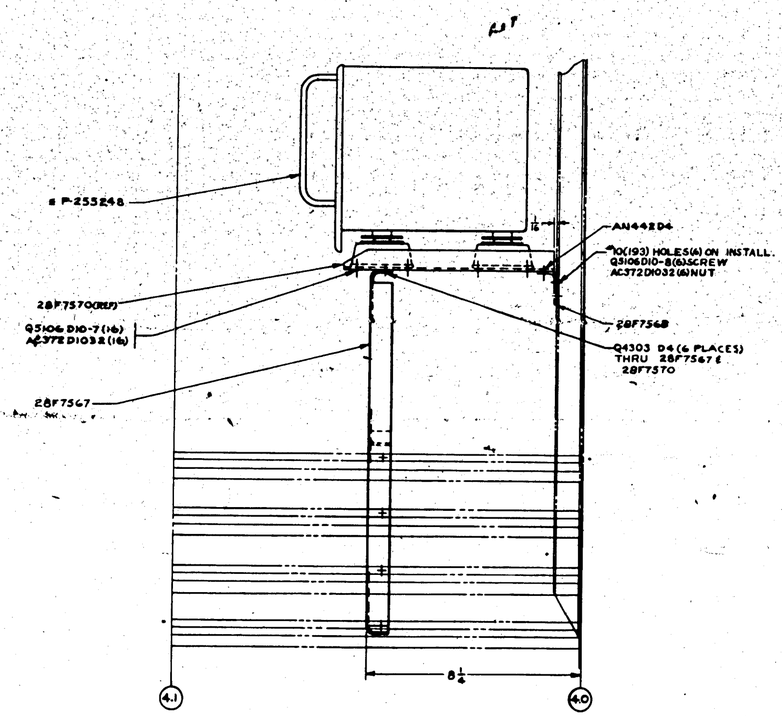
H 417



SECTION A-A
SCALE 12"=1'0"



VIEW LOOKING FWD AT BLKD 4
PORT SIDE



VIEW LOOKING OUTBOARD
FWD →

* GOV'T FURNISHED EQUIP

APPROVED FOR TOOLING BY
Howard Hughes

ALT	ALTERATION	DATE	BY

ALT	ALTERATION	DATE	BY
A	FOR MORE COMPLETE DATA, SEE REVISED PARTS LIST, DRAWING NO. 28F7569		

AN442D4
Q4303D4
Q5106D10-8
Q5106D10-7
AC372D1032

* P-255248-TRANSMITTER & RECEIVER-ALTD-3

PART NO.	STOCK	MATERIAL	SPEC.	LH QTY PER ASSY. -0	RH QTY PER ASSY. -0	LH QTY PER ASSY. -2	RH QTY PER ASSY. -2	LH QTY PER ASSY. -3	RH QTY PER ASSY. -3	LH QTY PER ASSY. -4	RH QTY PER ASSY. -4
28F7570				1		1		1		1	
28F7567					1		1		1		1
28F7568				1	1	1	1	1	1	1	1

MCR 2564-2

PART NO.	P-255248		
NOMEN.	TRANSMITTER & RECEIVER-ALTD-3		
ASSEMBLIES PER AIRPLANE	28-44		
DESIGNED BY		ASS'D. BY	
DRAWN BY		CHK'D. BY	
SCALE	6"=1'0"		

A.S.			
FINISH	NONE		
HEAT TREAT			

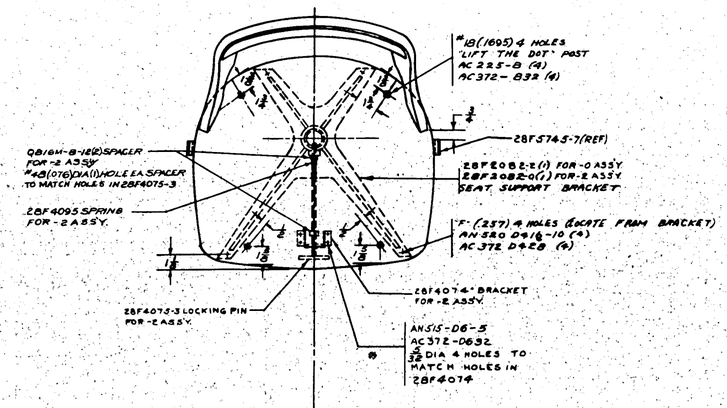
NAME INSTALL-FURNS-TRANSMITTER & RECEIVER ALTIMETER
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
SIZE J
DWG. NO. 28F7569

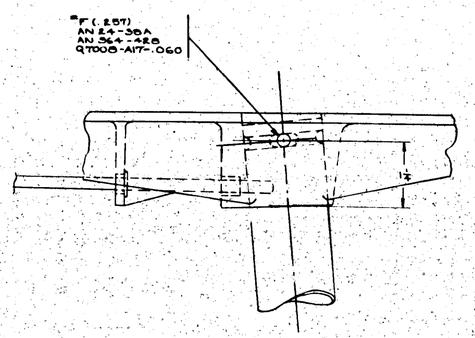
H 418

H. KELLER 7-1-43

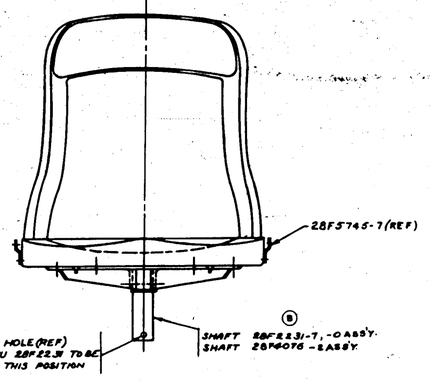
R 28F7569

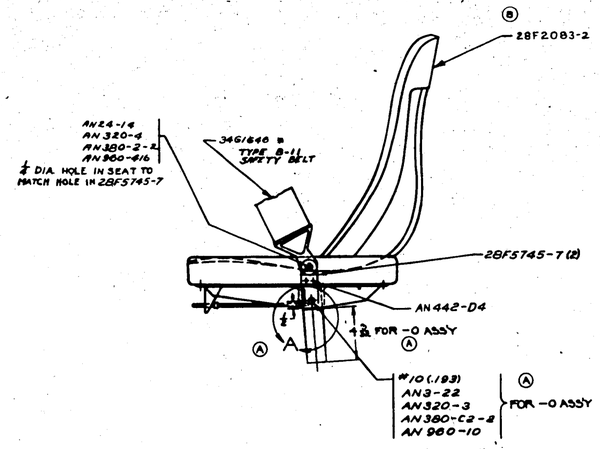
LET	ALTERATION	DATE	BY
A	LIMITED WHERE "X" (165) —		
	—AN960-10Z TYP. -0 ASS'Y		
	ADDED DIM. & TYP. FOR -0		
	ASS'Y. DETAIL A ADDED		
	(2) AN 364-428 (2) &		
	QTOOB-AIT-.060 TIE FOR		
	H.P. ASS'Y. REMOVE (1) AN 526		
	(1) AN 960-3 (1) AN 960-10		
	(1) AN 960-3 (1) AN 960-10		
	(2) AN 960-D (1) FROM		
	— P ASS'Y. NO LET. CHG.	5-24-43	HARRIS
B	FOR -0 ASS'Y. 28F5831-7 (1)		E.O. 5-5-43
	WAS 28F5831-8 REPLACED		E-6
	MATL "SEAT" 28" CRATTAU		D-3
	BRAID GENERAL FIREPROOF-		
	ING CO. YOUNGSTOWN, OHIO		
	TO BE FURNISHED: 1 WITH		
	BACK PAD & ATTACHING		
	PARTS, 1 WITHOUT BRUSH		
	PLATE & PADDING, TAPING		
	STRIPS & HOLES FOR SEAT		
	SUPPORT" WITH 28F5883-8		
	IN PLY. 28F5883-3 (1) REQ. -0.		
	& -3 ASS'YS. WAS "CRATTAU		
	SEAT - GENERAL FIREPROOF-		
	ING CO. YOUNGSTOWN, OHIO"		
	REQ. -0 & -3 ASS'YS. W/ CHG. -0		
	ASS'Y. 13.25" WAS 13.38"	9-24-43	HARRIS





DETAIL A
FOR -2 ASS'Y
SCALE 12"=1'0"





NOTE:
# DENOTES GOV'T. FURN. EQUIP

APPROVED FOR TOOLING BY
Gerstine 6-17-43

FINISH
ALUM. SEAT: 2-A-2SP
RIGHT SEAT: C-P-2SP

FINISH CODE	
A	NONE (SATIN)
P	AS FINISH
SP	SEMI-GLOSS
G	GLOSS

PART NO.	STOCK	MATERIAL	SPEC.	LIST NO. -0 REQ.	LIST NO. -2 REQ.	LIST NO. -3 REQ.	LIST NO. -4 REQ.	LIST NO. -5 REQ.	ZONE
AN16-3BH				1	1				B-3
AN960-10L				2					B-3
QTOOB-AIT-.060				2					B-3
AC372-832				3	3				B5
AC372-D428				3	3				C3
AC225-8				4	4				B5
AN442-D4				1					C6
AC372-D632					4				C6
AN515-D6-5					4				C6
28A1015-75				1	1				B4
AN960-10				1	1				B4
AN380-2-2				2	2				D4
AN426-D48-10				2	2				C5
AN960-C2-2				1	1				B4
AN3-22				1	1				C4
AN960-4				2	2				B4
AN380-416				2	2				B4
AN24-14				2	2				B4
AN3-22				1					B4
28F2083-2				1	1				D3
QB16H-8-18(2) SPACER				1	1				B4
AC225-8				4	4				C4
AN960-10L				1	1				C4
AN960-10				1	1				B4
28F4075-3				1	1				C4
28F4074-2				1	1				C4
28F4074-0				1	1				C4

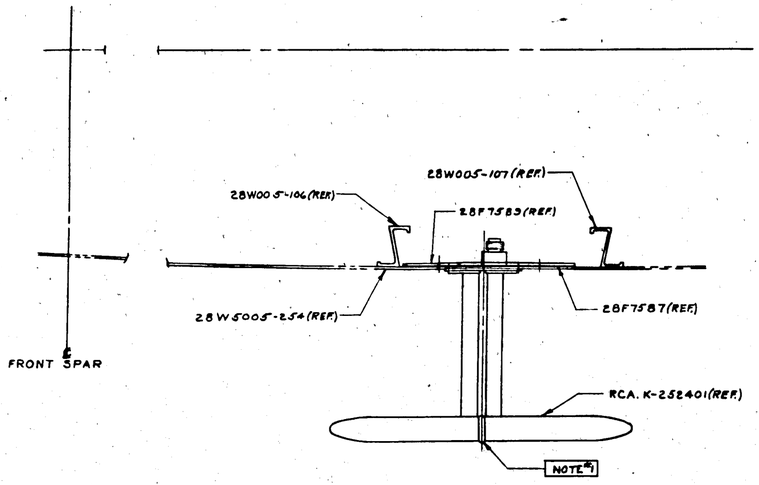
MCA #266 & CN

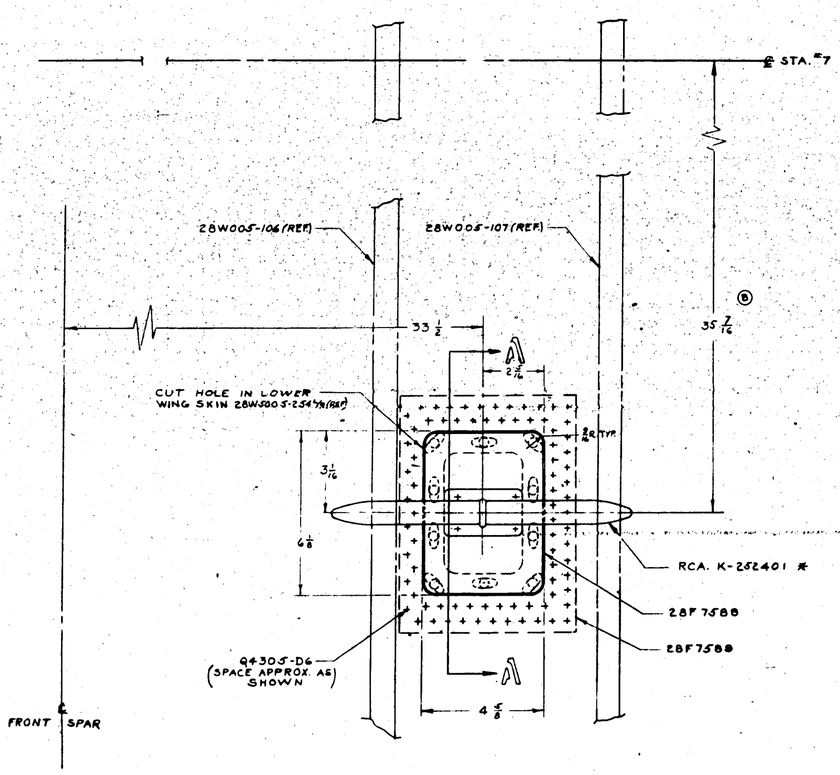
PARTS LIST FOR ASSY.	-0	-2	-3	-4	-5
ASSEMBLIES REQ. PER AIRPLANE	1	1			
REPLACED					
REPLACED BY					

A.S.	NONE
NAVY	NONE
HEAT TREAT	
	NOTED
FINISH	
DRAWN	9-1-43
DRAFT	
DESIGN	
STRESS	
NAME	SEAT ASS'Y-FURNS.- NAVIGATOR'S & RADIO OPERATOR'S
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.	
OPP. HAND	
SIZE	J
DWG. NO.	28F7572

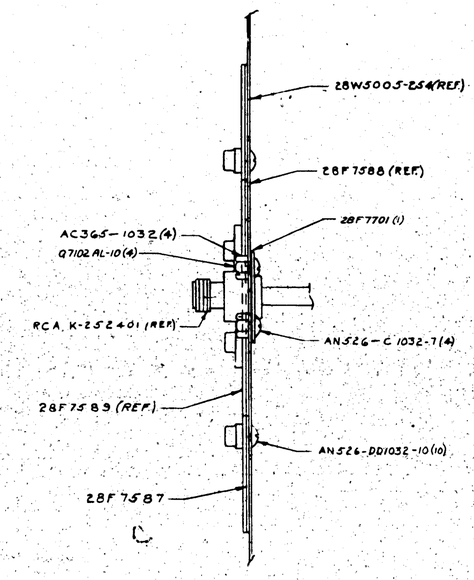
H 419

R 28F7572





VIEW LOOKING UP



SECTION A-A
SCALE 12"=1'0"

NOTE
1. THIS RING MUST NOT BE PAINTED UNDER ANY CONDITION (ZONE B-5)
2. *DENOTES GOVT. FURN EQUIP.
3. DRILL MOUNTING HOLES OF * RCA K-252401 (REF.) ANTENNA TO .193 DIA.

LET	ALTERATION	DATE	BY
A	ON FACE OF BOSS 4.1N 3/32 AN526-C1032-7 WAS AN526-10		
	-0061-3 BL 284-10 TH WAS BL 284		
	-3 IN NL ADDED BRETON DWG #7481		
	-8 (C) ADDED AND WIT CAGE CODE	2-2-61	
B	ALT. 3.1 IN & WAS 34.1 IN. AS NOTED	5-2-61	

LET	ALTERATION	DATE	BY

AN526-C1032-7	4			C3
AC365-1032	4			C3
* RCA K-252401 ANTENNA	1			05
4				
28F7588	1			05
28F7701	1			
-6 SUB ASSEMBLY				
Q4305-D6	4			
AN526-DD1032-10	10			C3
-5 SUB ASSEMBLY	1			7-8 05

PART NO.	STOCK	MATERIAL	SPEC.	LIST MATERIAL REQ'D FOR ASSY. -0	-2	-3	-4	-5	-6
				1	1	1	1	1	1

A.C.			
HEAVY			
LIGHT			
WEIGHT			

OPT. NAME NONE

NAME INSTALLATION-ALTIMETER ANTENNA

SIZE J | 28F7586

28F7586 R

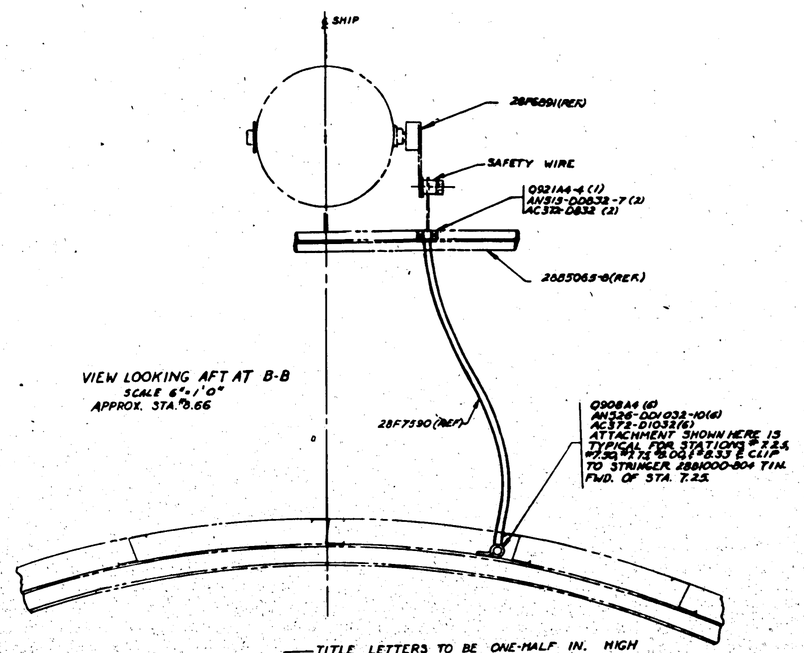
APPROVED FOR TOOLING BY
E. K. Sutton
6-14-63

MCR 254-1

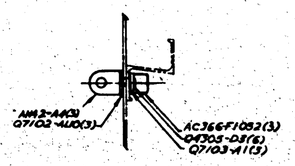
6.18.63

H 420

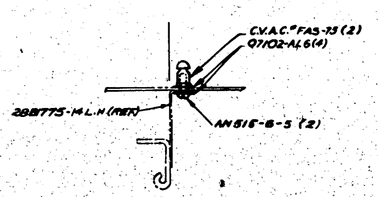
MKT	ALTERATIONS	DATE	BY	MKT	ALTERATIONS	DATE	BY



VIEW LOOKING AFT AT B-B
SCALE 6"=1'0"
APPROX. STA. 8.66



SECT. C-C.
SCALE 12"=1'0"
THRU STRINGER APPROX. 22½ EACH SIDE OF AIRPLANE MEASURED ON CONTOUR. ALSO AT STA. 7.5 ON ℄ OF AIRPLANE.



SECTION D
SCALE 12"=1'0"
LOCATED 4" EACH SIDE OF ℄ OF AIRPLANE MEASURED ALONG CONTOUR

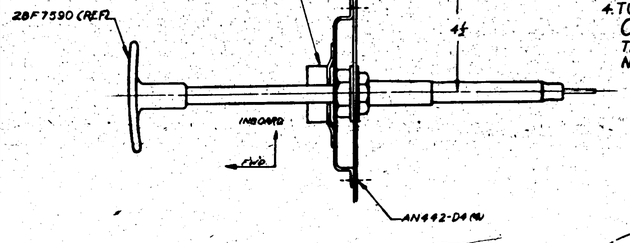
TITLE LETTERS TO BE ONE-HALF IN. HIGH

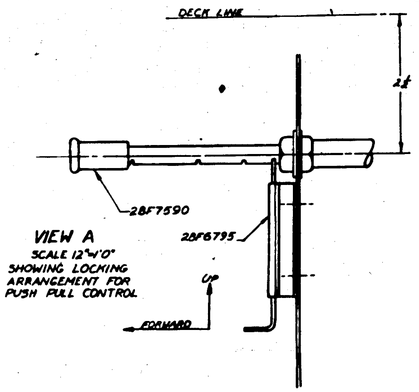
STENCIL ON BLKH'D BELOW 28F6795 IN BLACK LETTERS ONE-QUARTER INCH HIGH THE FOLLOWING:-

OPERATION OF ANTI-ICER HEATER

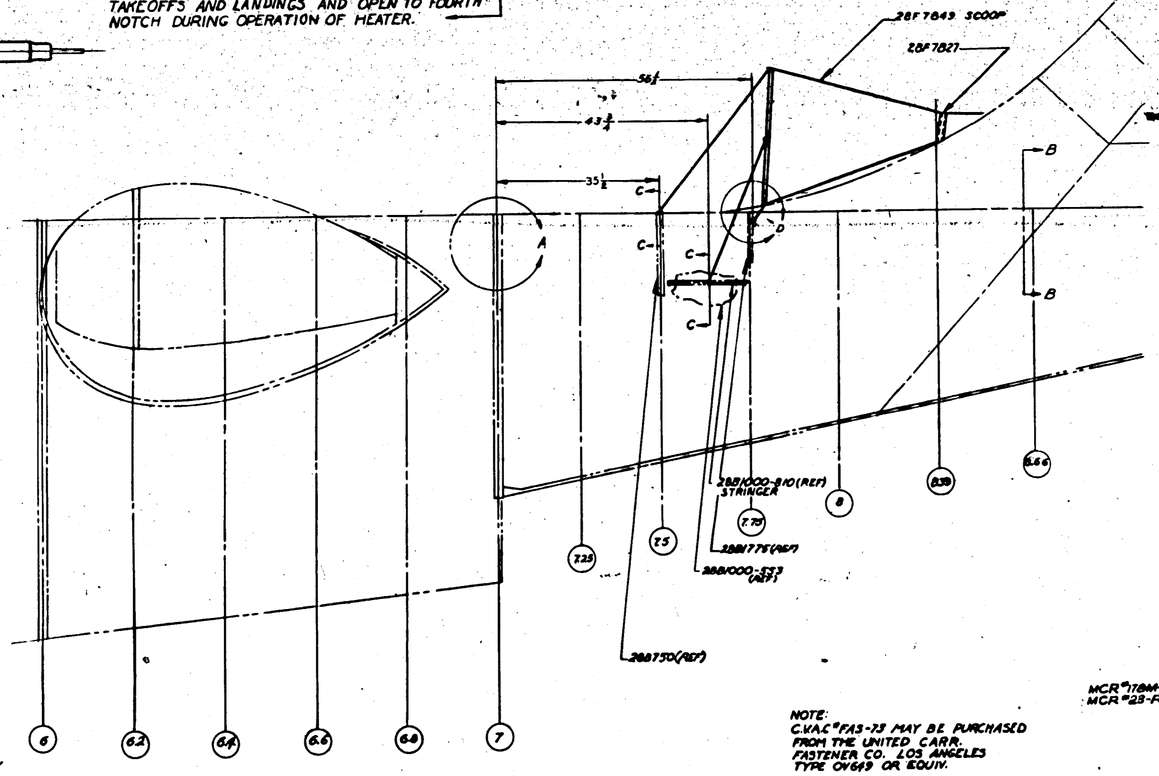
1. TURN ON MAIN DISTRIBUTION ANTI-ICER SWITCH
2. OPEN FUEL VALVE IN MECHANICS COMPARTMENT
3. PULL DAMPER OUT TO FOURTH NOTCH
4. TURN ON ANTI-ICER SWITCH AT BULKHEAD #7

CAUTION- DAMPER MUST BE CLOSED DURING TAKEOFFS AND LANDINGS AND OPEN TO FOURTH NOTCH DURING OPERATION OF HEATER.





VIEW A
SCALE 12"=1'0"
SHOWING LOCKING ARRANGEMENT FOR PUSH PULL CONTROL



STENCIL ON BLKD. AT LEFT SIDE OF 28F6793 IN BLACK LETTERS ONE-QUARTER-INCH HIGH THE FOLLOWING:—

-RELATIVE DAMPER POSITIONS-

CONTROL IN AT FIRST NOTCH(CLOSED)-NO AIR SUPPLY
CONTROL OUT TO SECOND NOTCH -¼ AIR SUPPLY
CONTROL OUT TO THIRD NOTCH -⅔ AIR SUPPLY
CONTROL OUT TO FOURTH NOTCH -FULL AIR SUPPLY

NOTE:
C.V.A.C. "FA3-73 MAY BE PURCHASED FROM THE UNITED CARR FASTENER CO. LOS ANGELES TYPE OV649 OR EQUIV.

MCR "1784 4 & ON
MCR "23-R4 & ON

APPROVED FOR TOOLING BY
J. Howard 4/27/60

C.V.A.C. "FA3-73
Q7102-AL6
Q7102-AU0
Q7102-AL6
Q4305-08
Q921-A4
Q908-A4
AC372-D1032
AC372-D832
AC366-F1032
AN525-D01032-10
AN515-D0832-7
AN42-AA
AN42-AA
AN442-D4

PART NO.	STOCK	MATERIAL	SPEC.	PARTS LIST PER ASSY. -0	-2	-3	-4	-5

A.C. NAVY NONE MFR'S TODAY NONE FINISH

DRAWN 4-19-60 CHK'D APPROVED DATE

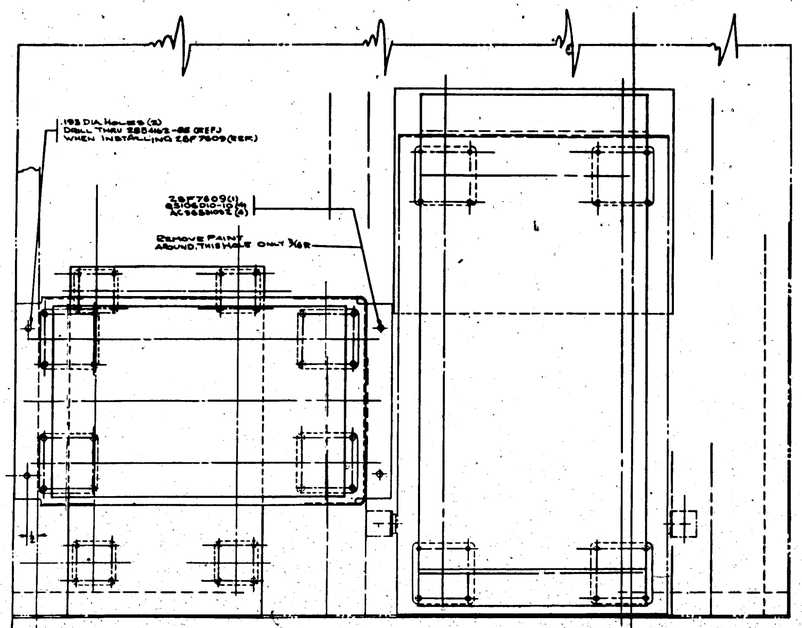
DESIGNATION INSTALL.-FURNS.-DAMPER CONTROL & AIR SCOOP

SIZE J CODE IDENT NO. 28F7597

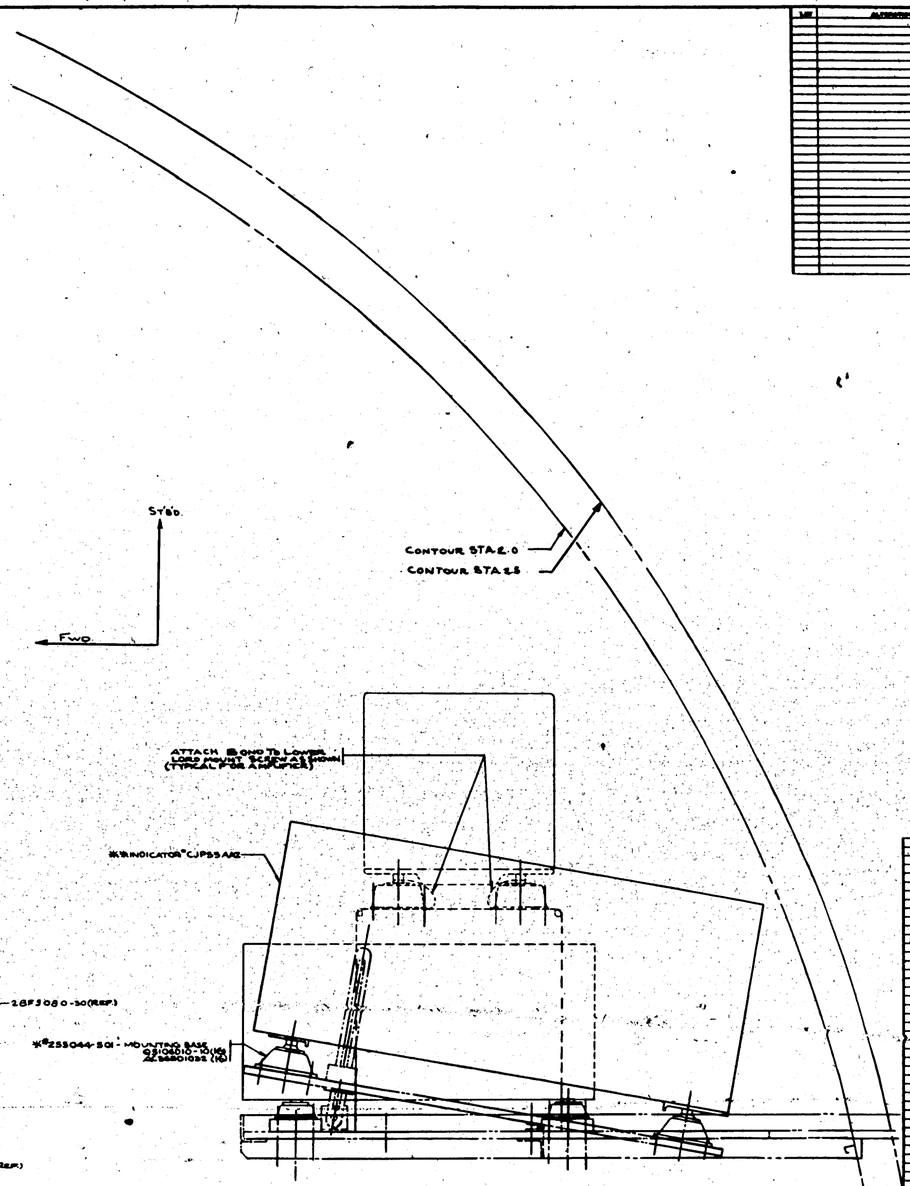
H 421

28F7597 R

LTR	ALTERATION	DATE	BY
A	ADDED "SEE NOTE #3" TO "TYPICAL GROUND..." REQMT. ADDED NOTE #3. IN S/M ADDED BOMA-NEG. WT. CHG		



-VIEW- STBD SIDE LOOKING OUTB'D



-VIEW- LOOKING FORWARD.

NOTE:
1. # DENOTES GOVERNMENT FURNISHED & GOVERNMENT INSTALLED EQUIPMENT
2. * DENOTES GOVERNMENT FURNISHED EQUIPMENT.
Ⓐ 3. WHEN BASES ARE USED WHICH HAVE INTERNAL BONB IN LORD MOUNTS, BOND LORD MOUNTS TO TABLE. BONDING STRIP WITH Q508A-4 BOND BRAID. ONE BONDBRAID FROM EACH LORD MOUNT TO BONDING STRIP

MK 270-6-1

APPROVED FOR TOOLING BY Gracelina 7-10-81

PART NO.	STOCK	MATERIAL	SPEC.	LIST 1	LIST 2	LIST 3	LIST 4	LIST 5
			PARTS LIST PER ASSY.	-0	-3	-3	-4	-5
AS								
UNIT WEIGHT	NONE							

1	AS 28 VOLT BACK INDICATOR
1	AS [illegible] AMPLIFIER
	AS [illegible] MOUNTING BASE
	AS 28S044-502 INDIC MTG BASE
	AS 28S044-501 INDIC MTG BASE
AR	AC365-832
AR	AC365D10532
8	AN3102-8-1C (SEE NOTE #3)
AR	BONDBRAID-10
AR	BONDBRAID-16
AR	BONDBRAID-8
1	28F7608
1	28F7609

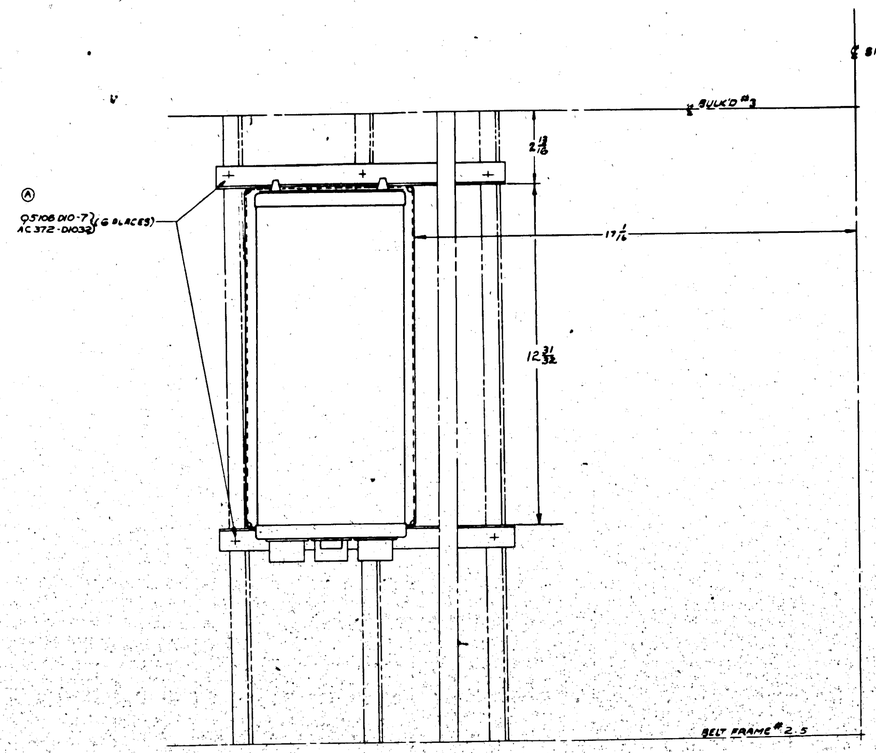
NAME	INSTALLATION-ASB-REMOTE INDIC RECVR & AMPLIFIER	SIZE	CAGE	NONE	
		J	28F7610		

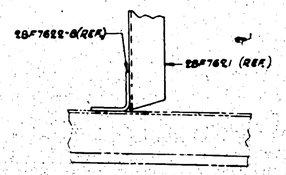
H 422

R 0191482

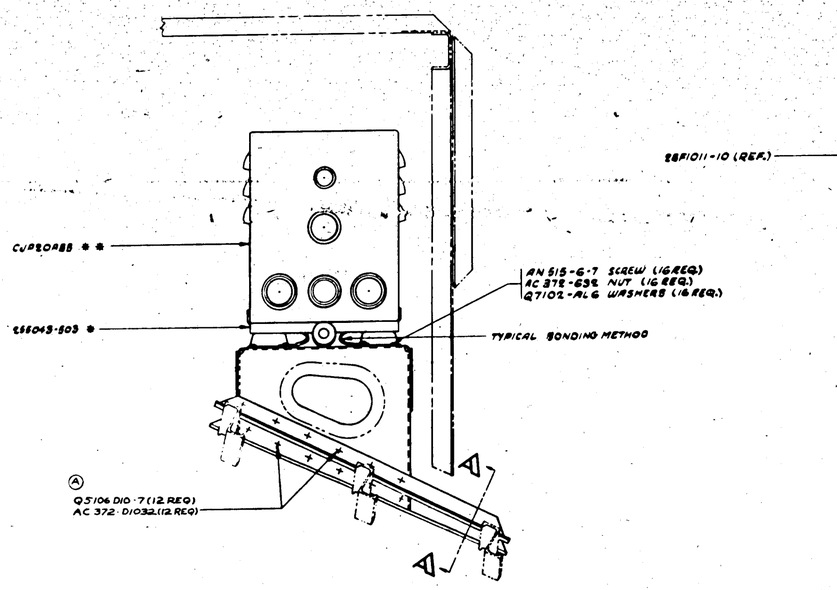
LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	INSTALL & RIG P.A.C.'S, REMOVE & REPLACE ANSERK ADS. AIRFOILS (TERMINAL & REPLACE WITH CLOSED LOOP (1 REQ) & AC 372-D1032 (16 REQ) NEG. W.F.C.P.C.		

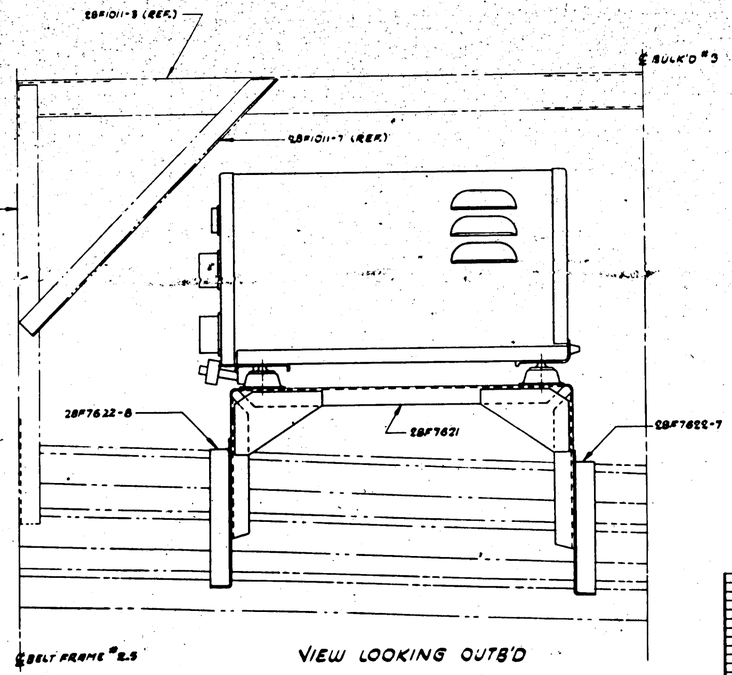




SECTION A-A
SCALE 18" = 1'-0"



VIEW LOOKING AFT



VIEW LOOKING OUTB'D

MCR 270-8

NOTE-
* GOVERNMENT FURNISHED EQUIPMENT.
* * GOVERNMENT FURNISHED EQUIPMENT GOVERNMENT INSTALLED.

APPROVED FOR TOOLING BY

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
				-0	-2	-3	-4	-5	

PARTS LIST FOR ASSY.

A/C		WING	
NAVY NONE	NONE	0-20-46	
USAF TODAY		DRAFT	

NAME INSTALLATION - ASB RECTIFIER POWER UNIT

SIZE J | 28F7623

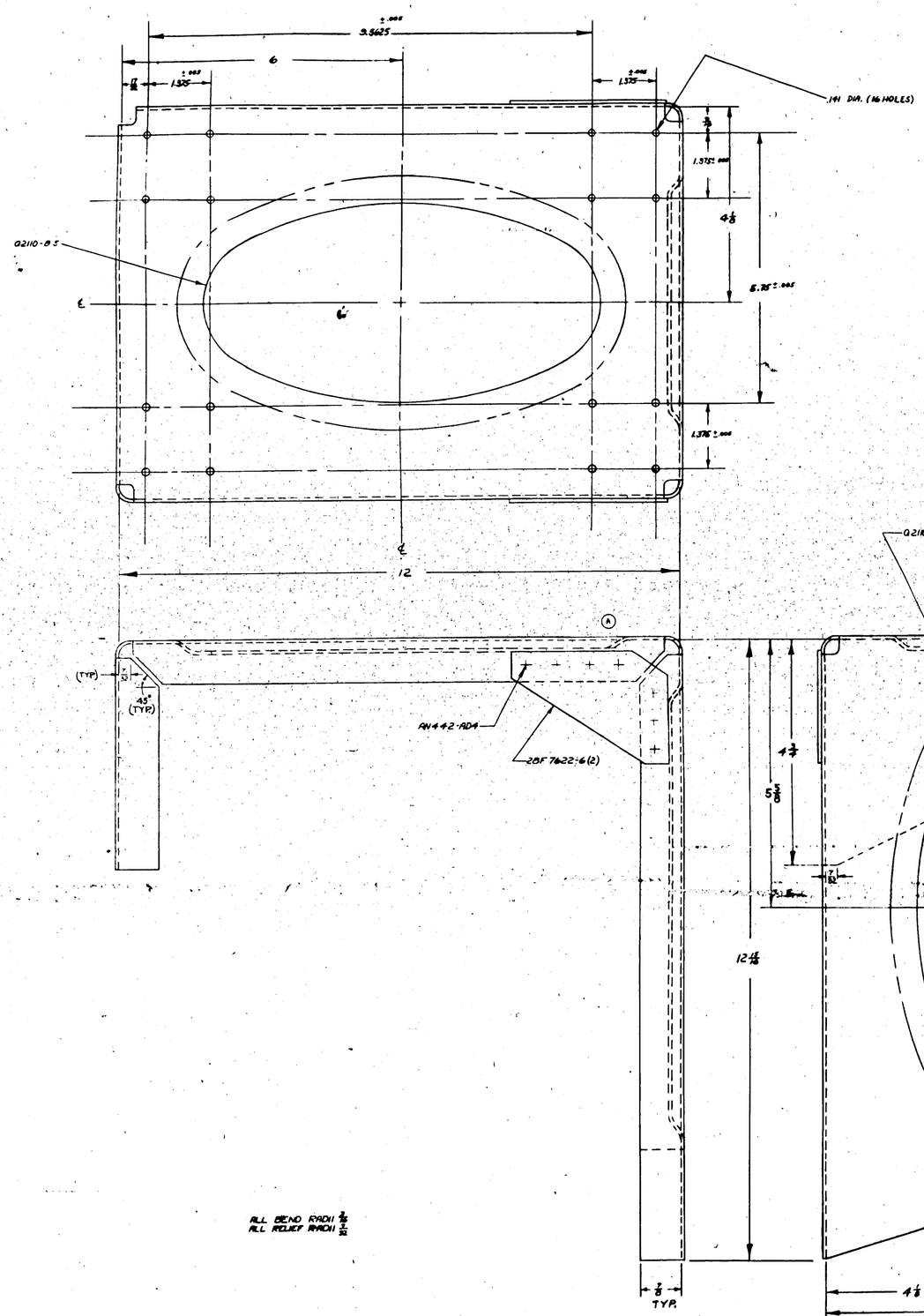
OPP HAND NONE

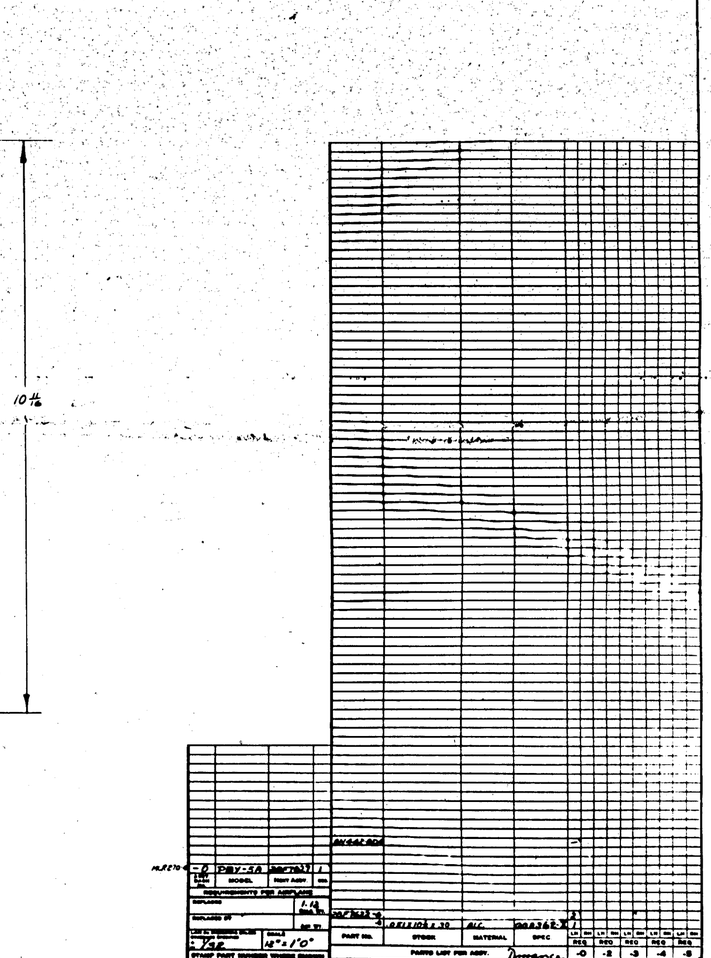
R 28F7623

H 423

LET	ALTERATION	DATE	BY

LET	AUTHORITY	DATE	BY
A	ON FACE OF DWG. RIVET PATTERN ATTACHING 28F7622-6 Alclad 2024 T3 SHT. (2) PLACES.		



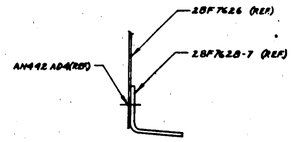


ALL BEND RADII 1/8
ALL RELIEF RADII 1/32

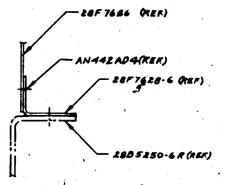
APPROVED FOR TOOLING BY
Gosline 7-6-53

| | | |

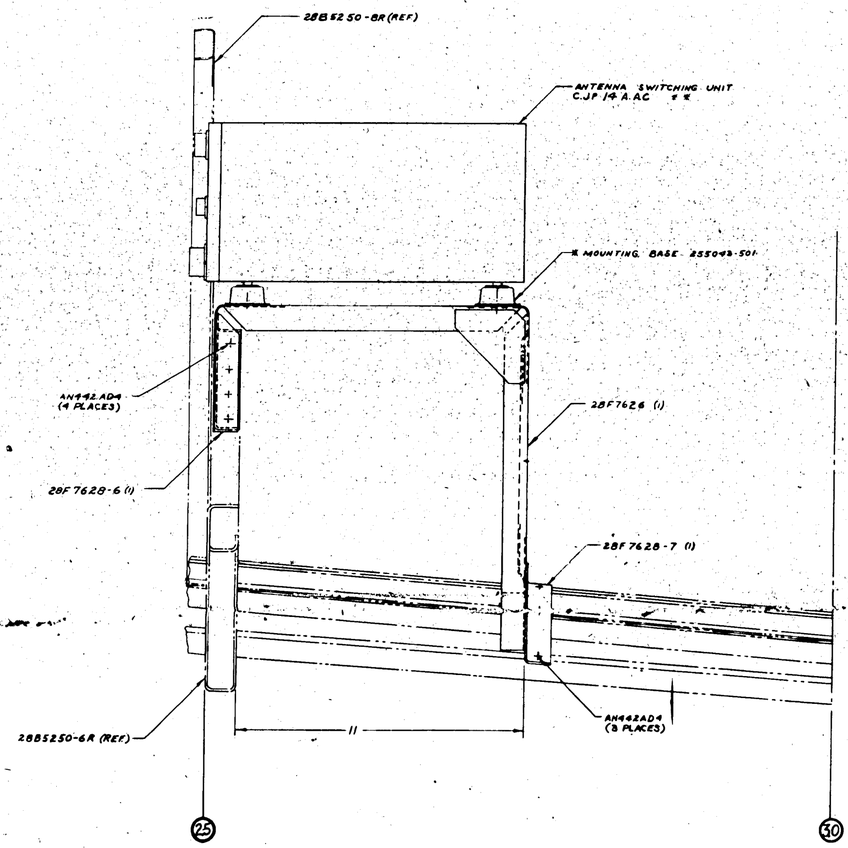
LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



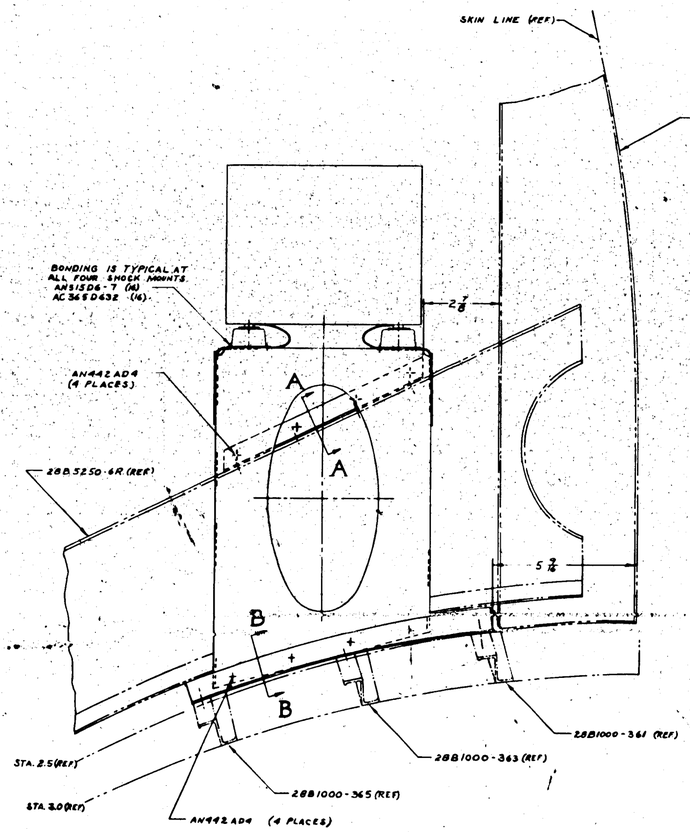
SECTION B-B
SCALE 18"=1'-0"



SECTION A-A
SCALE 18"=1'-0"



VIEW LOOKING OUTBRD. R.H. SIDE
FWD



VIEW LOOKING FWD.
OUTBD

NOTES —
1. ASTERISK (*) DENOTES GOVERNMENT FURNISHED EQUIPMENT
2. TWO ASTERISKS (**) DENOTES GOVERNMENT FURNISHED AND INSTALLED EQUIPMENT

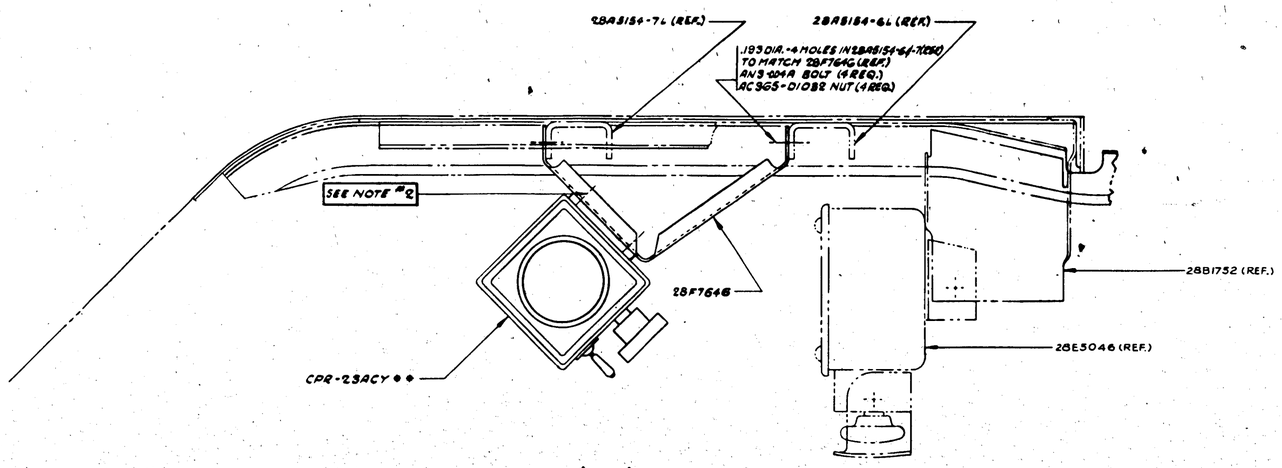
MCR 270-4

APPROVED FOR TOOLING BY
Gorsline 7-6-43

TITLE	WEIGHT R.F.P.	WEIGHT EVAC.
[illegible]	18.2 LBS	
[illegible]	.174	
[illegible]		4.26
RYBA WK	18.026	14.36

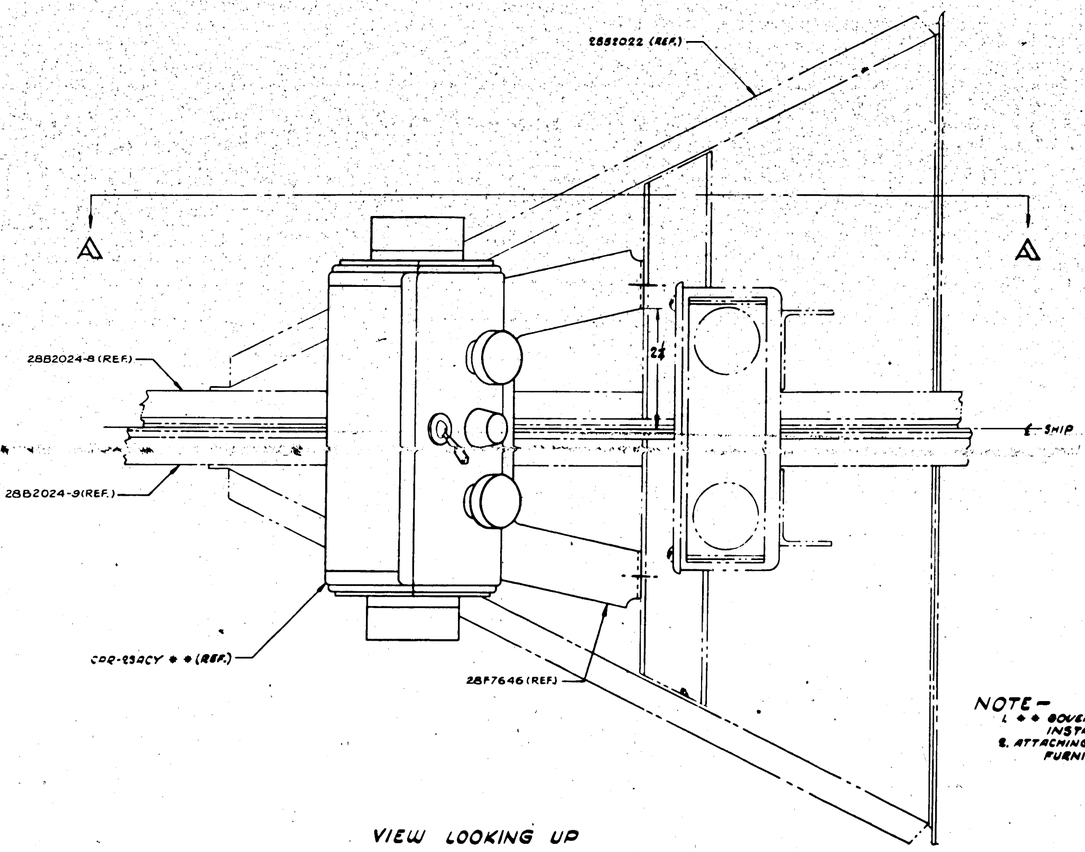
| | | | | | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY



SECTION A-A

FWD.



VIEW LOOKING UP

NOTE -
1 ● ● GOVERNMENT FURNISHED & GOVERNMENT INSTALLED EQUIPMENT.
2. ATTACHING SCREWS FOR CPR-23ACY TO BE FURNISHED & INSTALLED BY CUSTOMER.

	WEIGHT
G.F.E.	1.38 #
CVAC PARTS	.21 #
TOTAL CALC. WEIGHT	1.59 #

APPROVED FOR TOOLING BY Gerhart 7-7-53

MCR 270-9-0 REV-1-0 DIVISION 1

PART NO.	STOCK	MATERIAL	SPEC.	LH	RH	LH	RH	LH	RH	LH	RH
				DWG		DWG		DWG		DWG	
			PARTS LIST PER ASSY.	-0	-0	-3	-3	-4	-4		
**			CPR-23ACY CONTROL BOX	1							
			MS35206-228	4							
			AN3-4A	4							
28F7646				1							

A-0			MCR 270-9-0		
PARTS NONE	NONE		53-0 7749		
HEAT TREAT	FINISH		DRAFT	DESIGN	STRESS

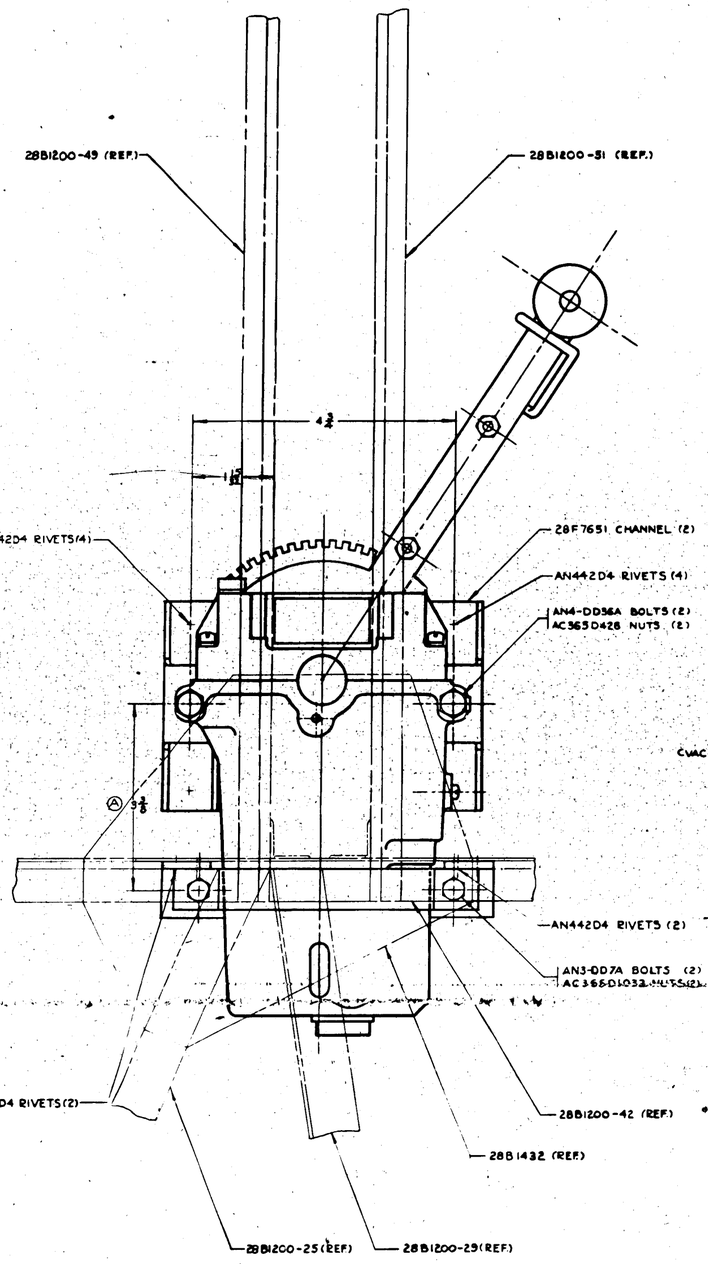
NAME INSTALLATION - A & B PILOT'S CONTROL BOX

SIZE J | DWG NO. 28F7645

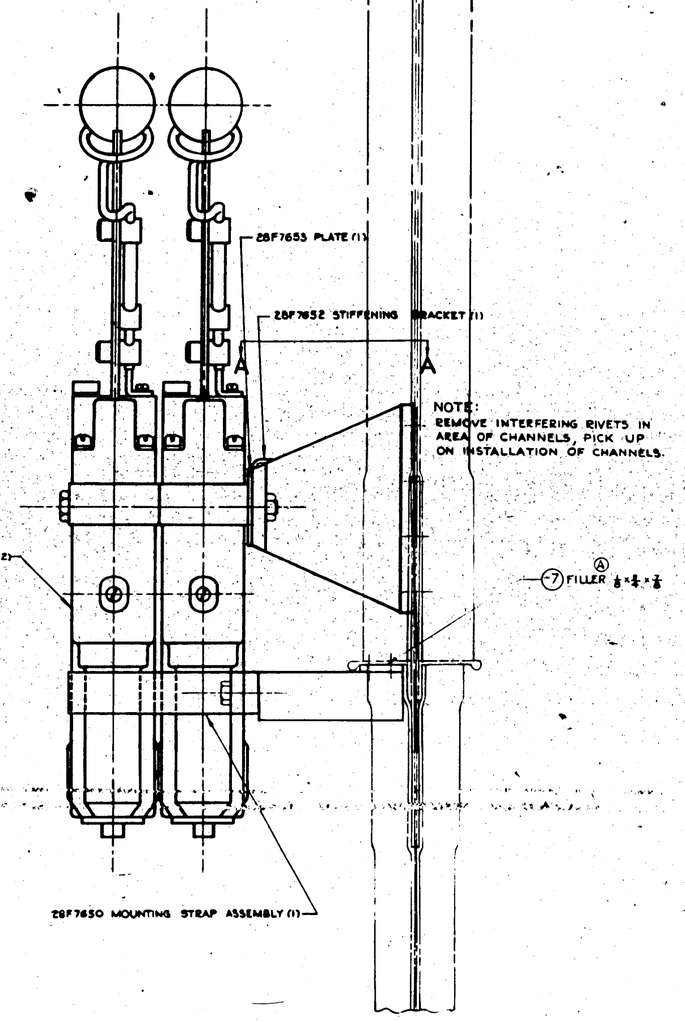
H 426

28F7645 R

LET	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
A	CHANGED LOCATION OF A & N NUTS ADDED -7 & -8 FILLERS & DIM. ON OVER DIMS. & DELETED 3 PLACES ON 3 VIEW						



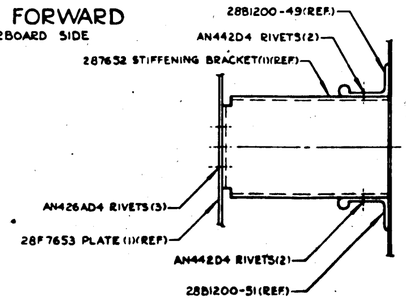
VIEW LOOKING FORWARD
BULKHEAD #2 - STARBOARD SIDE



VIEW LOOKING INBOARD
BULKHEAD #2 - STARBOARD SIDE

NOTE:
REMOVE INTERFERING RIVETS IN AREA OF CHANNELS, PICK UP ON INSTALLATION OF CHANNELS.

⑦ Ⓐ FILLER 1/8 × 3/4 × 7/8



SECTION A-A
SCALE 12"=1'-0"

NOTES: 1-CVAC-EXA-16 MAY BE PURCHASED FROM SPERRY PRODUCTS, INC., CHICAGO, ILL. VENDOR'S #ANACOSTIA 59316 OR EQUIV.

MCR 270-3 CON

APPROVED FOR TOOLING BY GOESLINE 7-17-45

AN426AD4 RIVETS
AN442D4 RIVETS
CVAC-EXA-16 (VENDOR'S #ANACOSTIA 59316 OR EQUIV.)
AC365D1032
AC365D428
AN3-DD7A
AN4-DD36A

PART NO.	STOCK	MATERIAL	SPEC	LNGTH REQ -0	-2	-3	-4	-5
28F7649				1				
28F7652				1				
28F7651				2				
28F7650				1				
AN426AD4 RIVETS				3	3			
AN442D4 RIVETS				4	4			
AC365D1032				2	2			
AC365D428				2	2			
AN3-DD7A				2				
AN4-DD36A				2				

PARTS LIST FOR ASSY.

-0 PBY-5A 28F7649 1
MODEL PART NO. NEXT ASSY QTY

REQUIREMENTS FOR AIRPLANE
Supersedes: B-345
Replaced by:
SHT. NO.

LOFTING DATE: 7-9-45
SCALE: 1/2"=1'-0"

AC NAVY NONE
HEAT TREAT: NONE
FINISH
LNGTH 73 45 7-17-45
DRAFT CHECK STRUCT MAT'L APPROV ENG

NAME: INSTALL'N -ASB- HYDRAULIC EXACTER
CONSOLIDATED VULTEE AIRCRAFT CORP. SAN DIEGO, CALIF.
SIZE J
DWG. NO. 28F7649
OPP HAND NONE

H 427

R

28F7649

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	ADD FACE AS DWG. C2116-9 (3) & SHIFT TO [illegible]		

8 1/32

4 1/2

1.937 ±.005

3.593 ±.005

1.937 ±.005

11/32

1.937 ±.005

1.937 ±.005

3/8 TYP

13.375 ±.005

8 1/32

16 7/8

.198 DIA. HOLES (16)

3 15/16

12 5/8

13 13/16

5 7/8

7 1/2

1 TYP

2 11/16

1 7/8

5 1/4

3 1/16

44 1/8

44 3/8

9 3/8

3/32 TYP

45° TYP

C2116-9 (3) DIRECTION OF BEADS OPTIONAL.

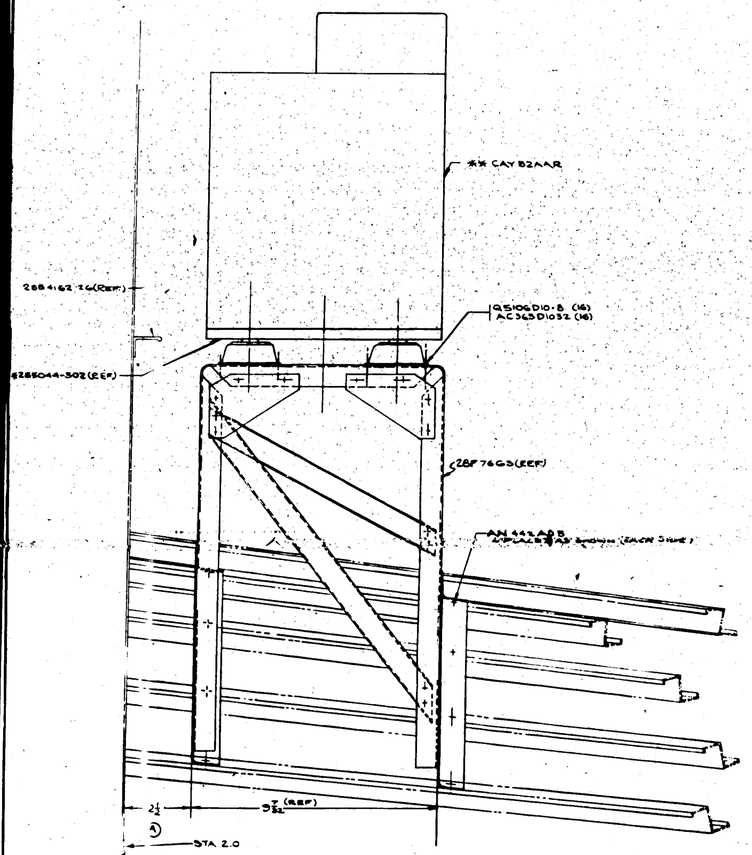
NOTE:-
1. ALL BEND RADII 3/32
2. ALL RELIEF RADII 1/8

APPROVED FOR TOOLING BY
Gorsline 7-12-63

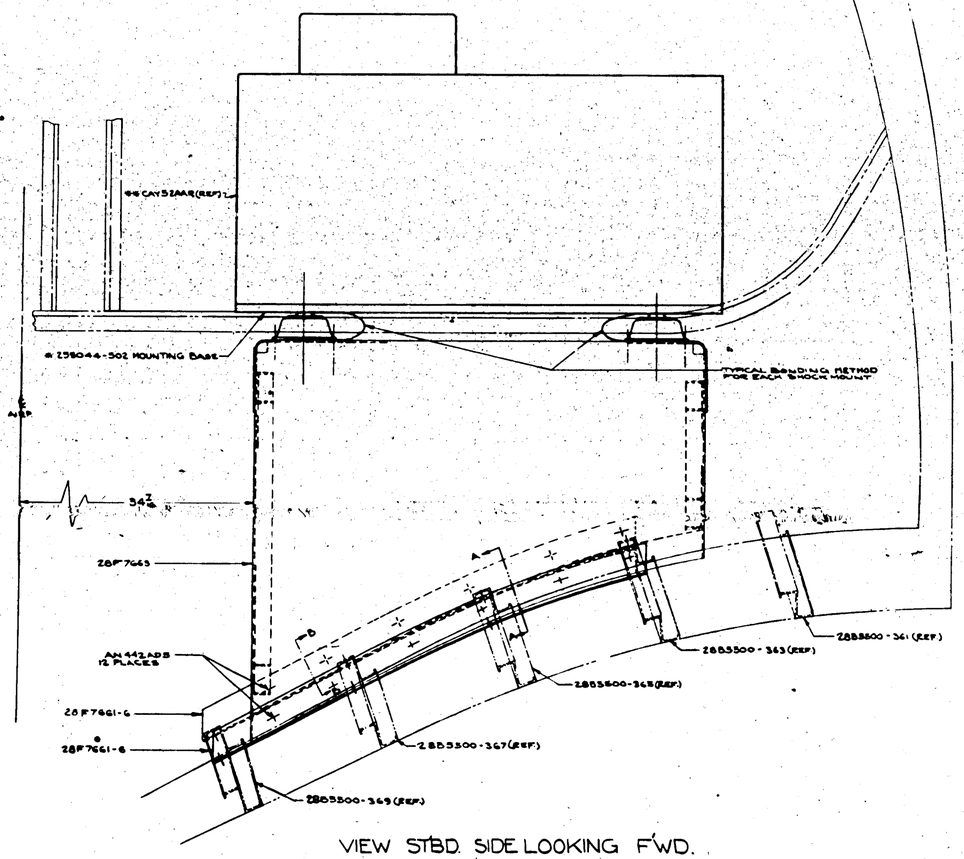
MCR270-5

| | | |

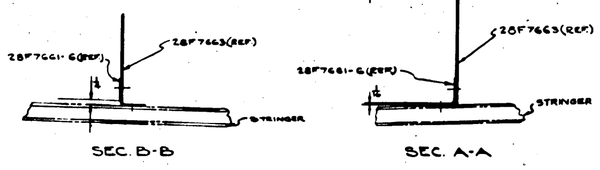
LET	ALTERATIONS	DATE	BY	LET	ALTERATIONS	DATE	BY
A	ON FACE OF DWG IN VIEW STBD SIDE LOOKING OUTBD AT STA 2.0 DIM 33 WAS 12 DO WI CHG	3-1-82	LBSZ				



VIEW STBD. SIDE LOOKING OUTB'D.



VIEW STBD. SIDE LOOKING F'WD.



SEC. B-B

SEC. A-A

NOTE.
1 ** DENOTES GOVERNMENT FURNISHED & GOVERNMENT INSTALLED EQUIPMENT.
2 # DENOTES GOVERNMENT FURNISHED EQUIPMENT.

NOTE:
TOTAL EVAC. WT. 2.93#
TOTAL G.F.E. WT. 28.00#
TOTAL WT. 30.93#

APPROVED FOR TOOLING BY
Caroline 7-17-83

AN442AD8
285044-502 TRANSMITTER BASE 1
** CAY52AAR TRANSMITTER 1

AC365D1032 GROMMET-B 16

PART NO.	STOCK	MATERIAL	DESC.	LIST OF MATERIAL FOR ASSY.	-0	-3	-3	-4	-9
28F7663					REQ	REQ	REQ	REQ	REQ
28F7661-6									

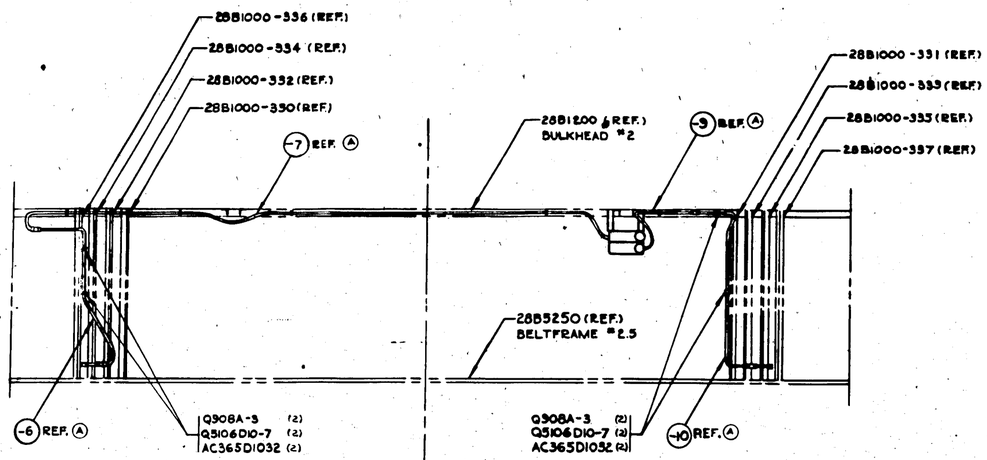
SIZE	NONE	NONE		CHK			
HEAT TREAT	FINISH			DRAFT			

NAME INSTALLATION - ASB TRANSMITTER

SIZE J | CAGE CODE | 28F7655

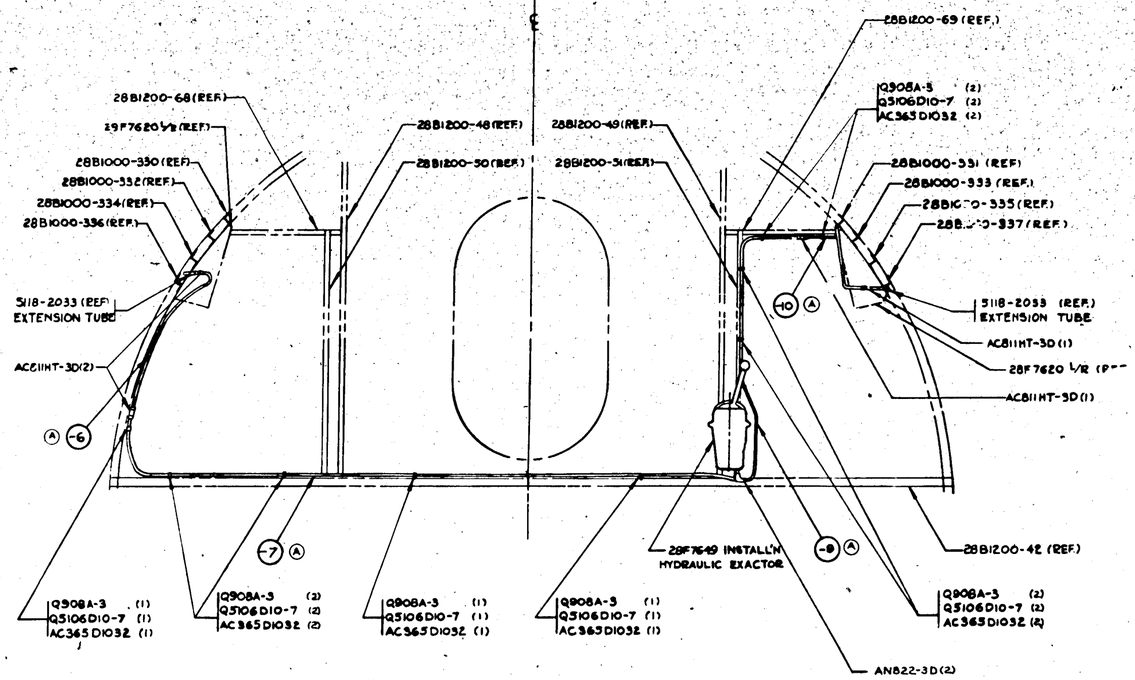
H 429

28F7655 R



FWD.

PLAN VIEW
BULKHEAD #2



VIEW LOOKING FORWARD
BULKHEAD #2

LET	ALTERATIONS	DATE	BY
A	IN PLAN VIEW & VIEW LOOKING FWD, CHANGED ROUTING OF -7 (C.E.) EXACTOR LOCATIONS OF 28B1000-3 CLIPS WITH ADDITIONS AT LIKE-28B(1) WAS AC811 -27-10(2) IN EITHER LENGTH -A(2) WAS -5 -7(3) WAS +A,-B(2) WAS -5 -16(3) WAS -5 REVISED -3,-11,-15 & AC811HT-3D(1) IN B/M & ON FACE ADDED SHOWN-3(2) & Q5106D10-7 (2) TO AC811D1031 (ONTOS MCR 2-55) (REF)	7-6-43	LEMKE
B	ADDED NOTE #2 - FILL SYSTEM WITH HYDRAULIC FLUID CONFORMING TO SPEC. AN-VV-O-366A (REF) CALC WT 10.8# WAS 8# (ACM 82-1001)	7-6-43	LEMKE

LET	ALTERATIONS	DATE	BY

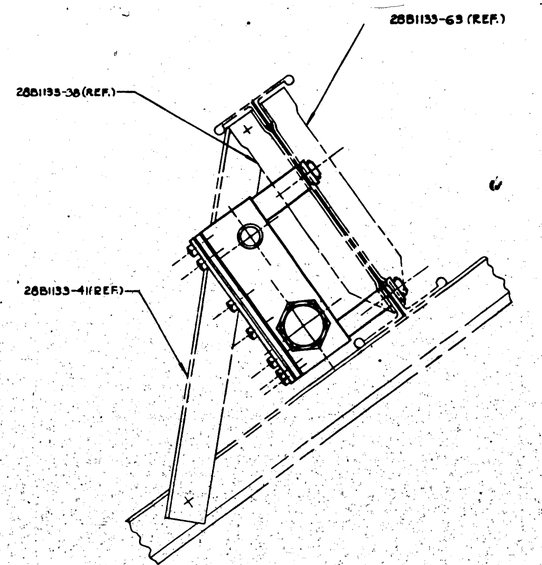
NOTE: 1. DASH NO'S OF TUBES ARE FOR COMPLETE ASS'YS & INCLUDES TUBES, NUTS & SLEEVES.

(B) 2. FILL SYSTEM WITH HYDRAULIC FLUID CONFORMING TO SPEC. AN-VV-O-366A

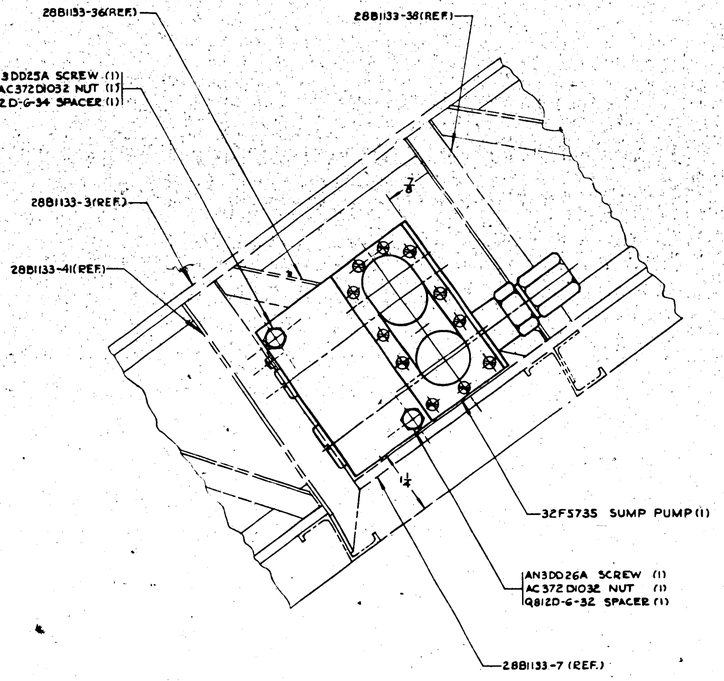
MCR 270-3 & ON

| | | |

MET	ALTERATION	DATE	BY	MET	ALTERATION	DATE	BY



VIEW LOOKING INBOARD - PORT SIDE
BELTFRAME 1.33



VIEW LOOKING AFT - PORT SIDE
BELTFRAME 1.33

PART No.	STOCK	MATERIAL	SPEC	LH -0 REQ	LH -2 REQ	LH -3 REQ	LH -4 REQ	LH -6 REQ
Q812-0638						1		
Q812-0634							1	
AC372D032					2			
AN3DD25A							1	
AN3DD26A					1			
32F0735				1				

PARTS LIST FOR ASSY

MCR 257A (ON)

NO.	MODEL	NEXT ASSY	SER
-0	PBY-5	28F4719	

REQUIREMENTS FOR AIRPLANE

REPLACES

REPLACED BY

DRAWING NO.	SCALE
1/32	12"=1'-0"

STAMP PART NUMBER WHERE SHOWN

APPROVED FOR TOOLING BY
FRUE 8-6-43

A C
NAVY NONE
HEAT TREAT
NONE
FINISH
7-12-43
DRAFT CHECK STRUCT

NAME INSTALLATION-SPERRY SYSTEM SUMP PUMP

OPP HAND NONE
SIZE J
28F7665

CONFIDENTIAL UNLESS OTHERWISE STAMP | DOD SECRET SECURITY | DOD SECRET CAT. II

R 28F7665

H 431

LET.	ALTERATION	DATE	BY
A	ON S/N CHANGE ASSY TO -9 L/R ASSY. AS NOT. CHG.	4-6-42	[illegible]

Z8P5128(REF.)

Z8P5126(REF.)

Z8P5083(REF.)

AN3-5A (6)
Q7102-AL10 (6)
LOCATE TO MATCH
Z8P5098(REF.)

AN3-4A (4)
Q7102-AL10(4)
LOCATE TO MATCH
Z8P5098(REF.)

Z8P5036(REF.)

28F7806

28F7805-R

4 5/8

9 1/4

THIS INSTALL. FOR PORT MOTOR ONLY

28F7803

Z8P5008(REF.)

30°
(REF.)

VERTICAL-NACELLE(REF.)

Z8P5078(REF.)

Z8P5094(REF.)

AN3-4A (9)
Q7102-AL10 (9)
LOCATE TO MATCH Z8P5144(REF.)

Z8P5088(REF.)

28F7805-L

28F7809-2

4 5/8

9 1/4

THIS INSTALL. FOR STARBOARD MOTOR ONLY

Z8P5144(REF.)

30°
(REF.)

VERTICAL-NACELLE(REF.)

ITEM	PART NO.	STOCK	MATERIAL	SPEC.	LT -9 REQ	LT -8 REQ	LT -3 REQ	LT -4 REQ	LT -5 REQ
1	Q7102-AL10				6				
2	AN3-5A				6				
3	AN3-4A				4	9			

PARTS LIST FOR ASSY.

SHOP APPROVE	APPROVE	DRAFT	
HEAT TREAT	FINISH	CHECK	
		STRUCT	

NAME INSTALL-FURN-SUPPORTING ANGLES-HEAT EXCH-FAIRING
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG. NO. 28F7802

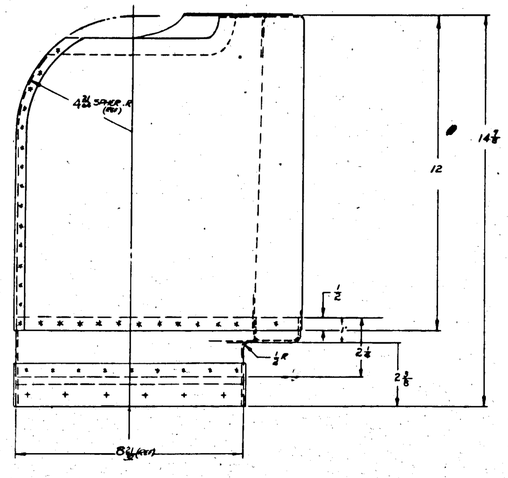
28F7802

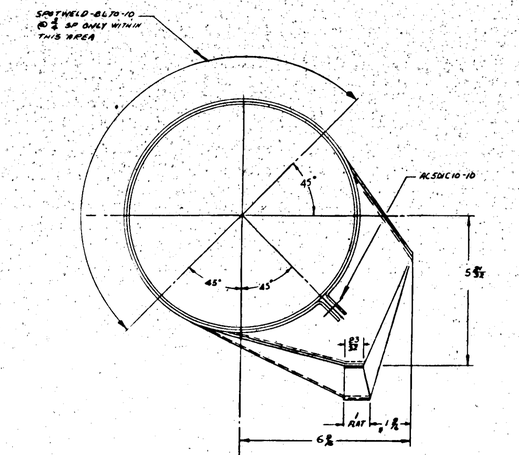
H 432

28F7802 R 7/1/42

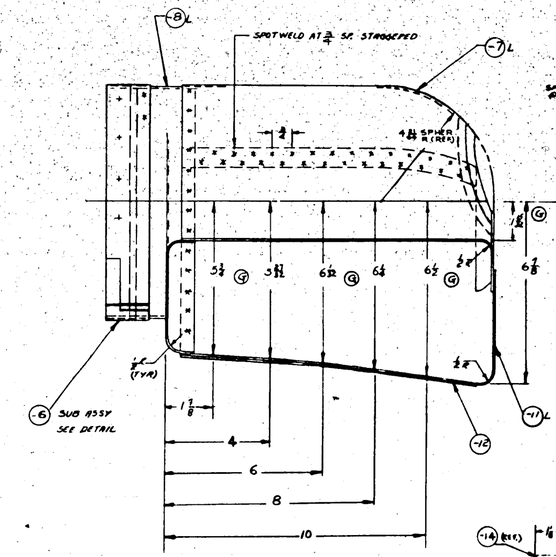
MKT	ALTERATIONS	DATE	BY
K	TOOLED		
G	IN SHT. AT PNTR. DIM. 4.38 WAS 4.38 DIM. 1.06 WAS 1.44 WAS 4.38 DIM. 5.81 WAS 5.81 WAS 4.38 DIM. 4.00 WAS 4.38 DIM. 1.06 WAS 1.44 WAS 4.38 DIM. 5.81 WAS 5.81 WAS 4.38		
H	IN SHT ST. "E" AN-QQ-S-763 REPLACED BY "NOTED" FOR -7 -8 -10 -10 LR -11 LR -12 ADDED NOTES 2, NO WT. CHG.	10-5-62	LAPINE

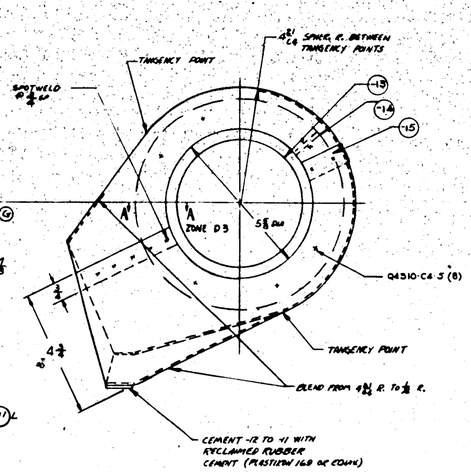
ZONE C-4

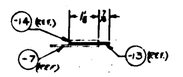




DETAIL OF -6L SUB ASSY
SCALE 6" = 1'0"







SECTION A-A
TYPICAL ALL AROUND OUTWING
ZONE C-3

NOTES:-
1. CAC NU-4S-5D MAY BE PURCHASED FROM THE ELASTIC STOP NUT CORP, BEVERLY HILLS, CALIF. VENDORS NO. 75-NAI-02 OR EQUIVALENT.
2. CAC FAB 13 MAY BE PURCHASED FROM U.S. RUBBER CORP, LOS ANGELES, CALIF. VENDORS NO. STYLE D-52 OR EQUIVALENT.
(H) 3. MATERIAL FOR -7-8 R, -8 LR, -10 LR, -11 LR, -12, & -13 MAY BE:
(A) STAINLESS STEEL SHEET, SPEC. AN-QQ-S-763, COND. A, OR
(B) STAINLESS STEEL SHEET, SPEC. AN-QQ-S-772, COMP. G, COND. A.

MKT	ALTERATIONS	DATE	BY
	CSK IN 45° SD		
	Q4304-C4-3		A
	Q4310-C3-3		A
	-10 R .031 (.28-.30 WIDE AND -5 DIA .338 -5 R SUB ASSY	NOTED WIDE AND	NOTED FOR 13
	CSK IN 45° SD		
	Q4304-C4-3		A
	Q4310-C3-3		A
	-10 R .031 (.28-.30 WIDE AND -5 DIA .338 -5 R SUB ASSY	NOTED WIDE AND	NOTED FOR 13
	PLASTIEW 168 OR EQUAL		
-7	.031 (.28-.30 WIDE AND	NOTED	NOTED
-8	.031 (.28-.30 WIDE AND	NOTED	NOTED
-10	.031 (.28-.30 WIDE AND	NOTED	NOTED
-11	.031 (.28-.30 WIDE AND	NOTED	NOTED
-12	.031 (.28-.30 WIDE AND	NOTED	NOTED
-13	.031 (.28-.30 WIDE AND	NOTED	NOTED
-14	.031 (.28-.30 WIDE AND	NOTED	NOTED
-15	.031 (.28-.30 WIDE AND	NOTED	NOTED
-6	SUB ASSY	NOTED	NOTED
-6L	SUB ASSY		

PART NO.	ORDER	MATERIAL	SPEC.	LAY OUT	DET.	LAY OUT	DET.	LAY OUT	DET.	LAY OUT	DET.
PLEASE LIST THIS ASSY.				-10	-8	-8	-4	-8			

MC.R. 778-8
MC.R. 828-10

A9		STRAIGHT	CHK'D
RIGHT ANGLE	MAKE		APP'D
RIGHT TRIGHT	FINISH	WEIGHT	ORDER

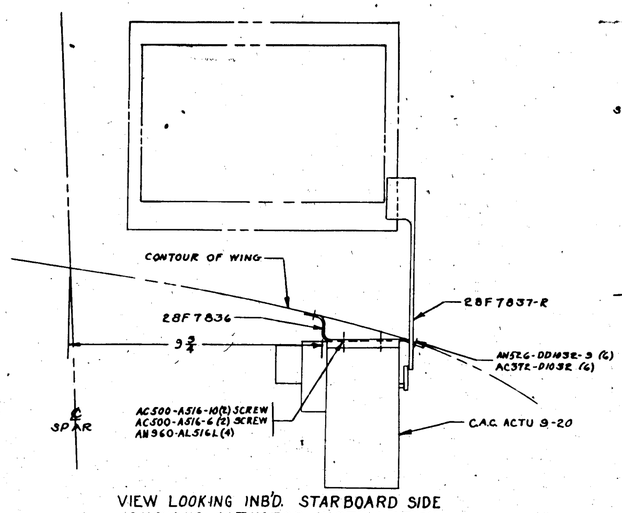
NAME: ASSY-FURNS-MEAT EXCHANGER EXIT DUCT

DEPT. NUMBER 88F760B-R

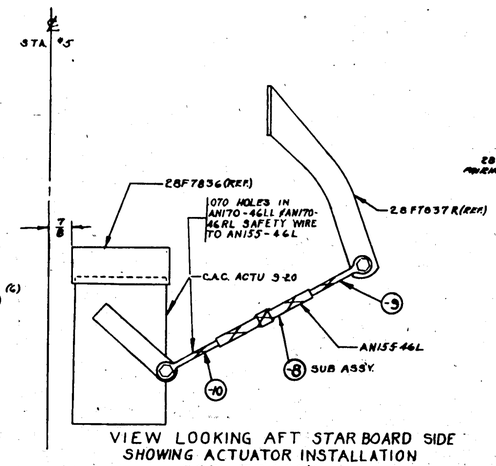
SIZE J | 28F7808

28F7808 R

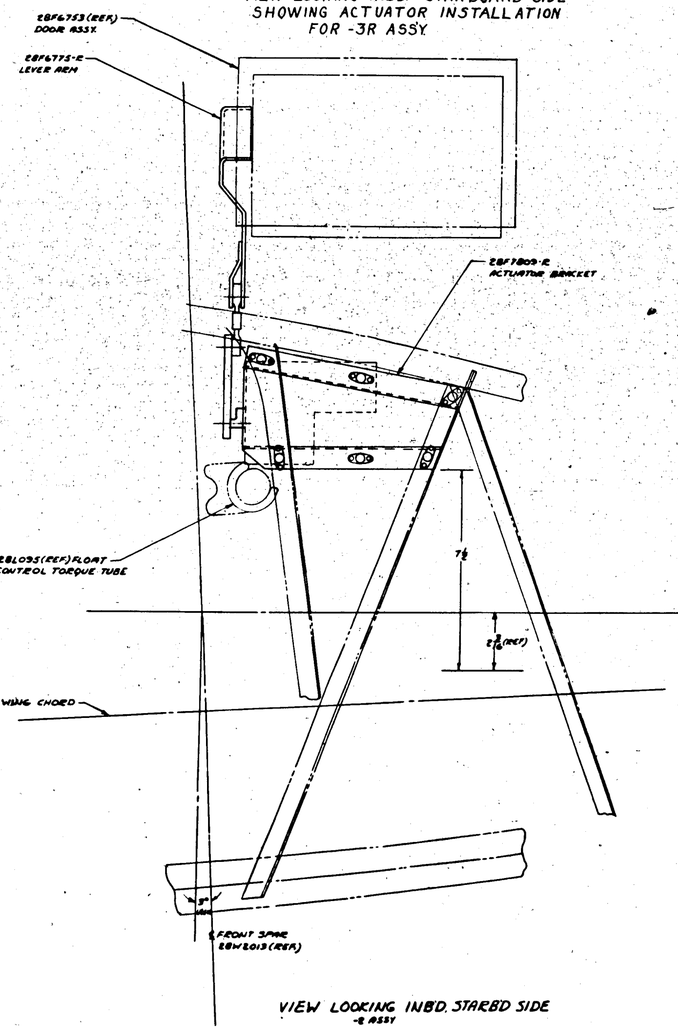
H 433



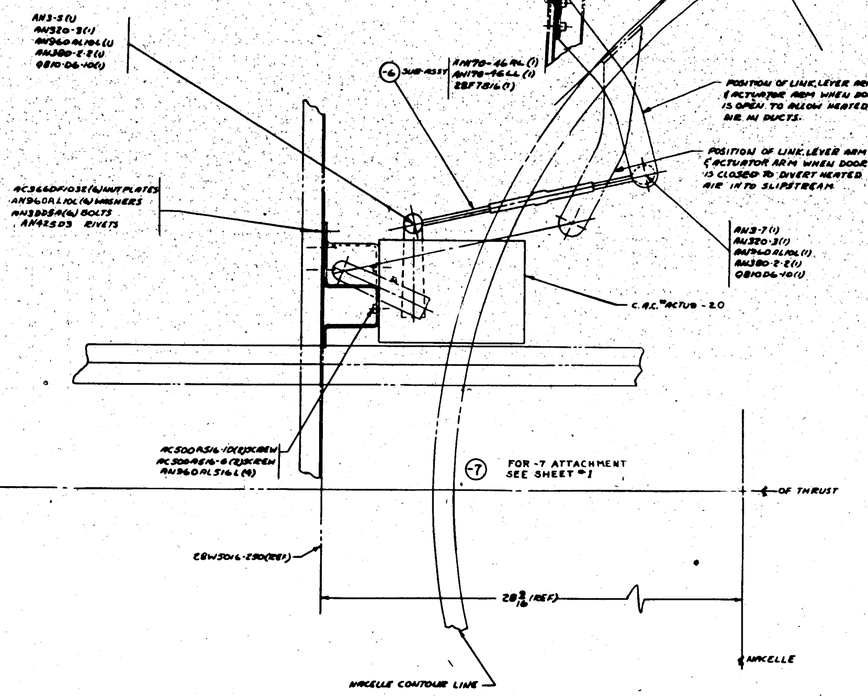
VIEW LOOKING INB'D. STARBOARD SIDE
SHOWING ACTUATOR INSTALLATION
FOR -3R ASS'Y



VIEW LOOKING AFT STARBOARD SIDE
SHOWING ACTUATOR INSTALLATION
FOR -3R ASS'Y.



VIEW LOOKING INB'D. STARBD SIDE
-2 ASS'Y



INSTALL. R.H. SIDE ACTUATING UNIT
VIEW LOOKING AFT, STARBD. SIDE
-2 ASS'Y

NOTE: 28F-6022 NOT SHOWN TO AVOID CONFUSION. THIS SHEET SHOWS ACTUATOR INSTALL. ONLY.

SHEET #2 OF 2

APPROVED FOR TOOLING BY

MARK	ALTERATION	DATE	BY
A	CAC ACTU 3-20 W.O. 2		
	CAC ACTU 3 AN MS626		
B	ADDED -7 AN210-DA-8(R)		
	AC372-D1032-AG1 N.T.P. AN MS		
C	CREATED - 3 A.R.B. W.C. CANADA		

MARK	ALTERATION	DATE	BY
A	CAC ACTU 3-20 W.O. 2		
	CAC ACTU 3 AN MS626		
B	ADDED -7 AN210-DA-8(R)		
	AC372-D1032-AG1 N.T.P. AN MS		
C	CREATED - 3 A.R.B. W.C. CANADA		

SEE SHEET 1 FOR REV.

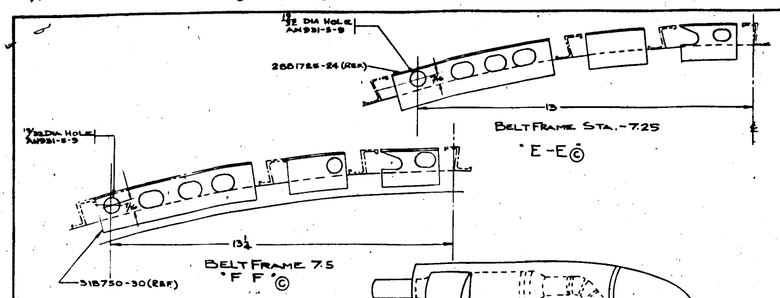
PART NO.	SYMBOL	MATERIAL	SPEC.	LH REQ.	LH SH	LH REQ.	LH SH	RH REQ.	RH SH	RH REQ.	RH SH
PARTS LIST PER ASSY.				-0		-2		-3		-4	

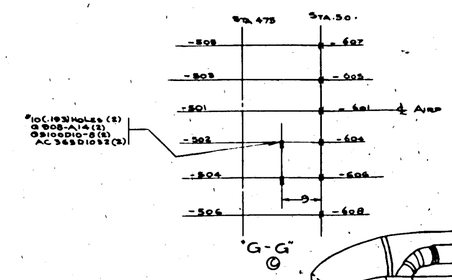
NAME INSTALL - FAIRING - ACTUATOR & NACELLE DUCT HEAT ANTI-ICING SYSTEM

CONSOLIDATED AIRCRAFT CORP. Fort Worth Division

SIZE J | DWG. NO. 28F7811 | SHEET 2 OF 2

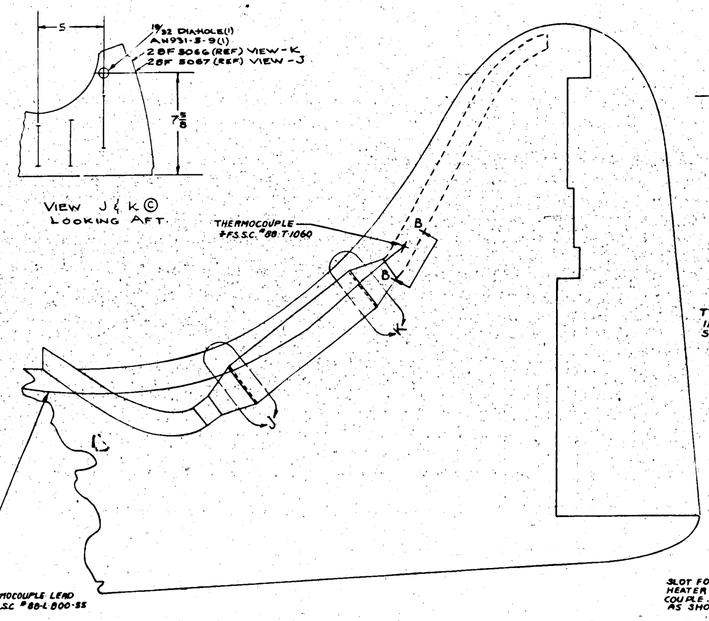
H-434





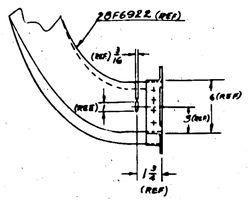
NOT	ALTERATIONS	DATE	BY
K	INC'RD WAS 1 NT 11		
	AN 960 AL 832-10 WAS AN960-1032		
	AN 526 DD 832-8 WAS AN526D-10		
	CHANGED IN 8/TH		
A	ON FACE OF DWG ADDED DETAIL A.A.C. O.L. TYP. NEW 28F7826 ANGLE LEAD. HOLES IN WING LEADING EDGE CHGD. ROUTING OF THERMOCOUPLE LEAD IN WALL ENDS TYPICAL INSTALLN. OF THERMOCOUPLE IN FACE 8 IN. DIA ADDED Q306-A8 (2) Q 810 DIA-8 (2) AC 365 D1032 (2) ADDED NOTE 3 (8) ADDED 14 DIA REF.		
C	ADDED TO FACE OF DWG. VIEWS K & F G-G, J, H; ADDED TO 8/TH PARTS AN931-5-9 (6) TOTAL (13) AC 365 D1032 WAS (20) Q 810 A DIO-8 WAS Q 810 A DIO-8 (12) P.S.S.C. "88-L-800-55 WAS P.S.S.C. "88-L-800-55	3-10-48	MAP
D	ON FACE OF DWG. IN TYPICAL INSTALL. OF THERMOCOUPLE VIEW "H" 8 I WAS 7/8 I; ADDED TO LEADS GO THRU SLOT WRAP WITH FRICTION TAPE AND COAT WITH GLYPTOL		

NOT	ALTERATIONS	DATE	BY
D	ON FACE OF DWG. ADDED NOTE "WHERE THERMOCOUPLE LEADS GO THRU SLOT WRAP WITH FRICTION TAPE AND COAT WITH GLYPTOL"		
K	1/8 RAD. R-31 DETAIL C-C 7/16 DIM. WAS 7/8 (REF) WAS 1 NT		
	ON FACE OF DWG. ADDED DETAIL D-D		
	ON FACE OF DWG. 2 P.S.S.C. "88-L-800-55 ON FACE OF DWG. 1 P.S.S.C. "88-L-800-55 ON FACE OF DWG. 1 P.S.S.C. "88-L-800-55 ON FACE OF DWG. 1 P.S.S.C. "88-L-800-55		
	2 P.S.S.C. "88-L-800-55 WT. CHG. NIL	4-1-48	BLANEY
F	ADDED NOTE "3" TO FACE OF DWG. "ROUTING OF WING ANTI-ICING THERMOCOUPLE LEADS THROUGH SUPERSTRUCTURE" (C.N. 16288) DWG. NO. CHANGE	4-26-48	BLANEY
G	CAC CLI 177-25 (TINNERMAN SPEED NUT 3-440-S) (2) WING CAC CL-177-25 (TINNERMAN SPEED NUT 3-440-S) (3) WT. CHG. NIL	4-29-48	BLANEY
H	AN 931-5-9 (11) WAS 7/8 I DIA. HOLE REPLACED 13/16 DIA. HOLE REMOVED DIM. 6 7/8 ADDED DIM. 3 3/4 & 7 1/8 NO WT. CHG.	10-16-48	
J	04401-BK-0 (6) WAS CAC NU 90 NO WT. CHG	10-19-48	
K	REMOVED NOTE 2 "CAC NU-90 RIVNUT HAVES PURCHASED FROM H.F. GOODRICH CO. N.Y." 45 OR EQUIVALENT NO WT CHG	10-19-48	

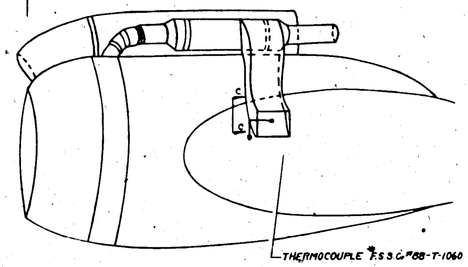


THERMOCOUPLE INSTALLATION IN EMPENNAGE

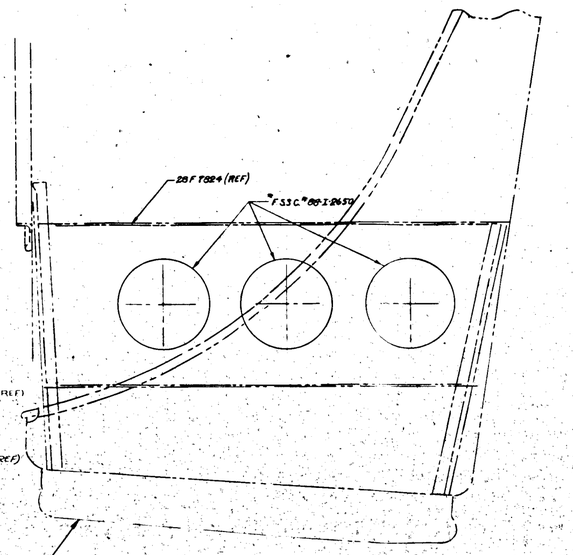
STBD NACELLE



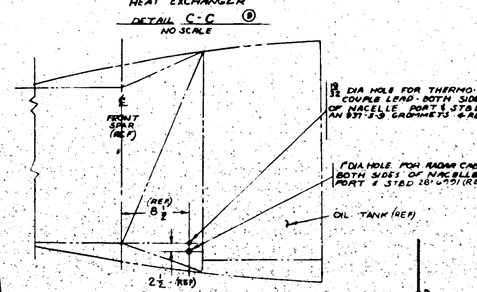
TYPICAL LOCATION OF THERMOCOUPLE IN AIR DUCTS FRONT ENGINE HEAT EXCHANGER



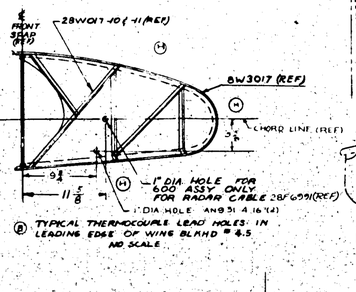
PORT NACELLE



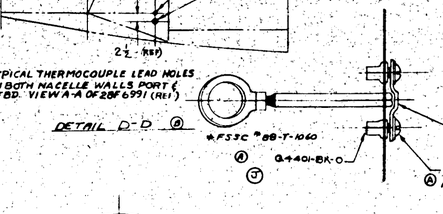
VIEW J & K ©
LOOKING AFT.

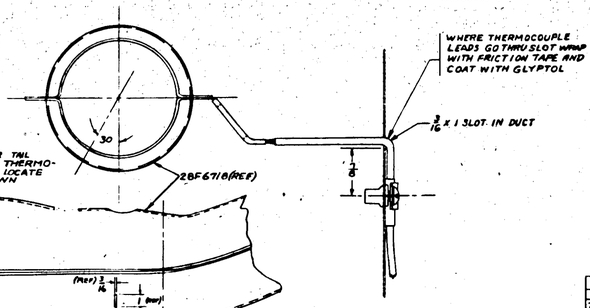


TYPICAL THERMOCOUPLE LEAD HOLES IN BOTH NACELLE WALLS PORT & STBD. VIEW A-A OF 28F6991 (REF)

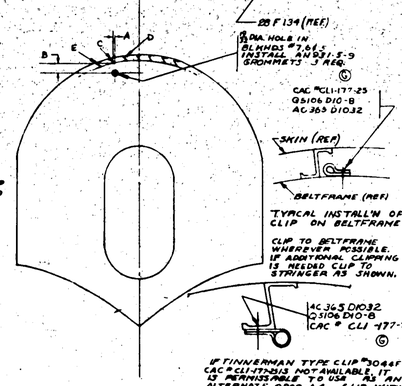


Ⓑ TYPICAL THERMOCOUPLE LEAD HOLES IN LEADING EDGE OF WING BLAHD # 4.5 NO SCALE





TYPICAL INSTALLATION OF THERMOCOUPLE FULL SIZE



STA #	A	B	28 B 1000	28 B 1000	28 B 1000
633-725			621 VIEW	T-REF-F	806
725-70			-804		
70-60	1/4		-804 L 704		
60	1/2	1/2	-704 L 604		
60-50			-604		
50	1/4	1/4	-604 L 504		
50-45			-504	-502	48 BUCKET

Ⓑ DETAIL A NO SCALE

NOTE:—
1. CLIP & TAPE THERMOCOUPLE LEADS TO STRUCTURE AS NECESSARY. LOCATION OF THERMOCOUPLES & LEADS TO BE DETERMINED ON FIRST INSTALLATION.

Ⓐ

* 3- ROUTING OF WING ANTI-ICING THERMOCOUPLE LEADS TO FOLLOW SAME ROUTING AS ENGINE THERMOCOUPLE LEADS THROUGH SUPERSTRUCTURE (28F8032 REF.)

C.NO. (3) 964
NCR 23 (2.3)
C-9874

Ⓐ

		AC 365 D1032	32
		Q 306 D10-8	28
		CAC * CLI-177-25 TINNERMAN * 3044F-3 OR Q 908-A4	60
		AN931-5-9 GROMMET	11
		AN931-4-16	2
PBY-5A	28F6002	9 908 A-14	8
		* F.S.S.C. "88-L-800-25	8
PBY-5	NOT USED	* F.S.S.C. "88-L-800-55	8
		* F.S.C. "88-T-1060	8
		Q4401-BK-0	6
		AN960 AL-8	6
		AN526DD832-10	6
		28F7826	3

PARTS LIST PER ASSY.	-0	-2	-3	-4	-5
QUANTITY REQ.	1	1	1	1	1

A E		30-3-48	
NAVY NONE	NONE	9-1-48	
HEAT TREAT	FINISH	DRAFT	STRESS

NAME THERMOCOUPLE INSTALLATION FURNS - HEAT ANTI-ICING EQUIPMENT

CONSOLIDATED AIRCRAFT CORP. San Diego Shop

SIZE J | DWG NO. 28F7825

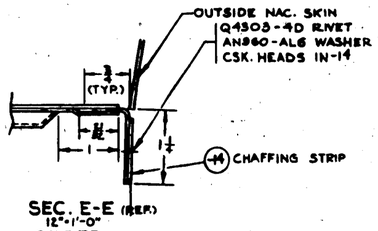
28F7825

R

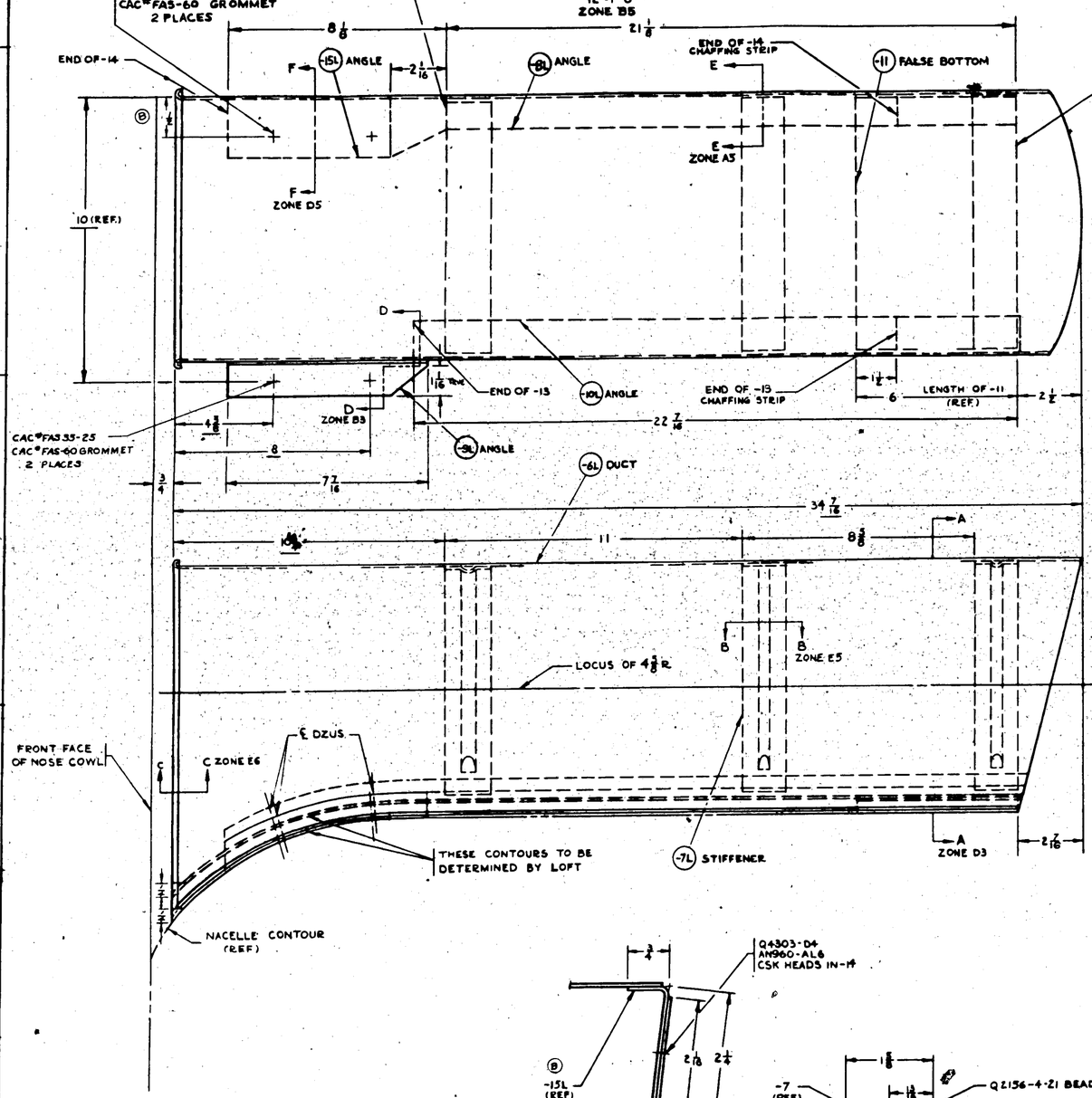
H-435

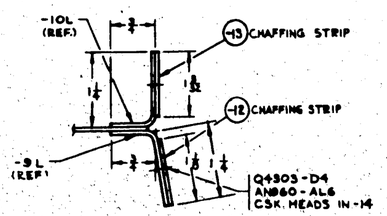
LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	CHG'D CAC #FAS-SE-1 (G) TO CAC #FAS-SE-SS (G) & CAC #FAS-51-SS (G); ADDED NOTE #2. CHG'D NOTE #2 "CAC #FAS-SE-1 MAY BE PURCHASED FROM REMBLE STEEL CORP. VEN #FAS-1" TO "CAC #FAS-SE MAY BE PURCHASED FROM ATKA FASTNER CO. VEN #FAS-SE-80". CHG'D NOTE #3 "MAY BE PURCHASED FROM HOLLISTER ARMINA & COIL CO. VEN #502" TO "MAY BE PURCHASED FROM DZUS FASTNER CO. VEN #GFM14-.250" NO WT. CHG.	7-26-43	
B	DIM'S (SHOWN IN SEC'S F-F & B-B) WAS -SL (REF.) NO WT. CHG.	9-9-43	

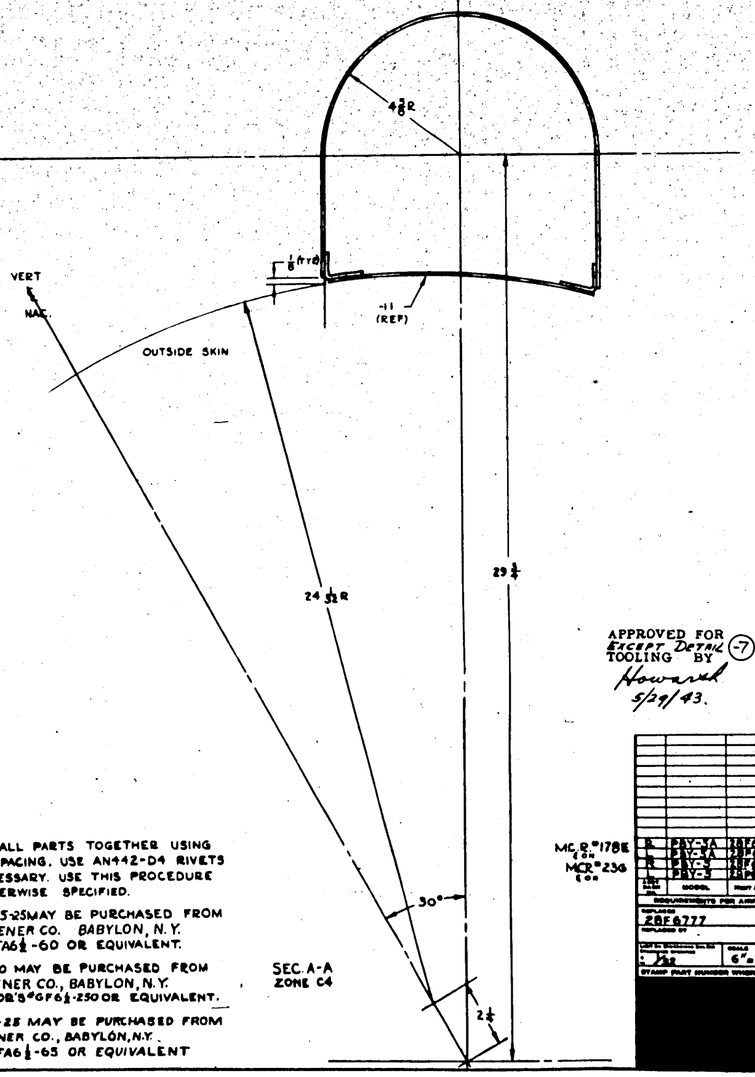


SEC. E-E (REF.)
12"=1'-0"
ZONE B5

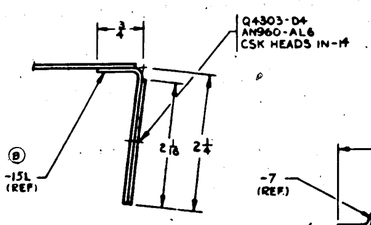




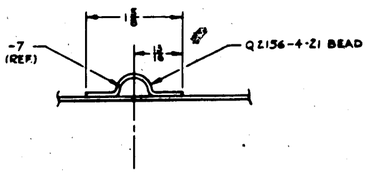
SEC. D-D
12"=1'-0"
ZONE B6



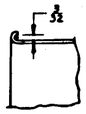
SEC. A-A
ZONE C4



SEC. F-F (REF.)
12"=1'-0"
ZONE B6



SEC. B-B
ZONE C5



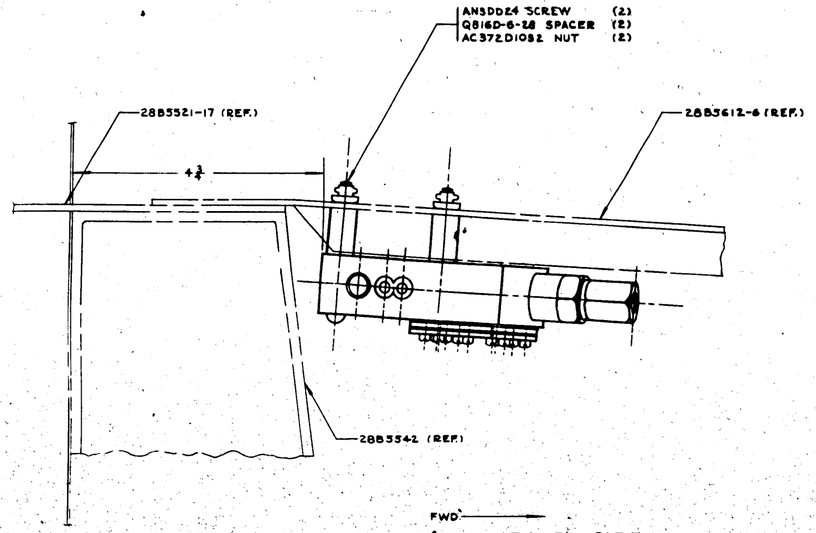
SEC. C-C
ZONE D7

NOTE:
1.- SPOTWELD ALL PARTS TOGETHER USING APPROX 1" SPACING. USE AN442-D4 RIVETS WHERE NECESSARY. USE THIS PROCEDURE UNLESS OTHERWISE SPECIFIED.
2.- CAC. FAS. "35-25 MAY BE PURCHASED FROM DZUS FASTENER CO. BABYLON, N.Y. VENDOR'S #FA6½-60 OR EQUIVALENT.
3.- C.A.C. FAS. "60 MAY BE PURCHASED FROM DZUS FASTENER CO., BABYLON, N.Y. CALIF. VENDOR'S #GF6½-250 OR EQUIVALENT.
4.- CAC #FAS 37-25 MAY BE PURCHASED FROM DZUS FASTENER CO., BABYLON, N.Y. VENDOR'S #FA6½-65 OR EQUIVALENT

APPROVED FOR EXCEPT DETAIL TOOLING BY (-7)
Howard
5/29/43.

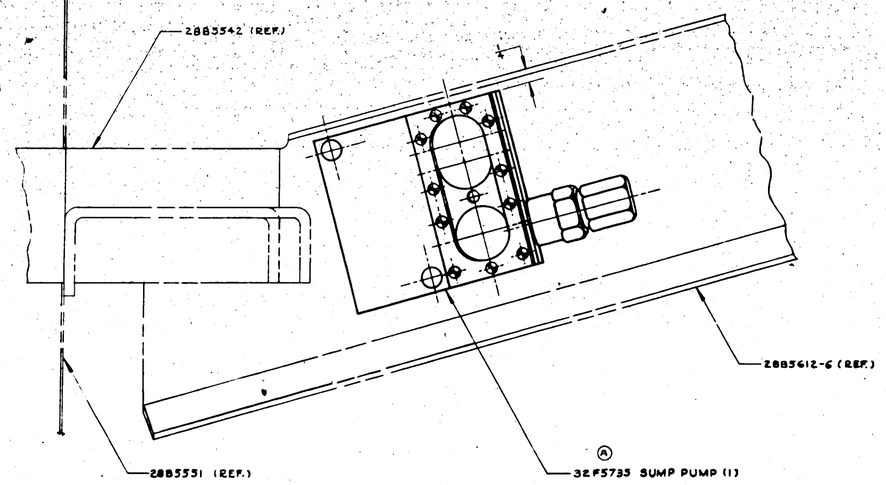
| | | |

LET	ALTERATION	DATE	BY
A	ON FACE 32F5733 SUMP PUMP CHANGE TO 32F5735 SUMP PUMP (1) NO WT. CHG.	8-12-43	[illegible]



FWD

PLAN VIEW – PORT SIDE



FWD

VIEW LOOKING OUTBOARD – PORT SIDE

PART No.	STOCK	MATERIAL	SPEC.	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
	PARTS LIST PER ASSY.			-0		-2		-3	-4	-5
SM10-43A				2						
AC372D1032				2						
AN3DD24				2						
32F5735				1						

MCR 2578 ON

LIST OF SCHEDULE VALUES Dwg & Revision	SCALE
1 [illegible]	12"=1'-0"

STAMP PART NUMBER TRIMMING DIMENSIONS

-0 LIST No.	MODEL	NEXT ASSY	USE
	PBY-5A	28F7875	1

DOCUMENTS PER AIRPLANE

SUPERSEDED	1-53
REPLACED BY	ASP No.

A S							
NAVY NONE	NONE						
HEAT TREAT	FINISH	DRAFT	ENGR	STRUCT	MAT	APPROV	DATE

NAME INSTALLATION-HYDRAULIC SYSTEM SUMP PUMP

OPP NAND NONE

SIZE J | 28F7875

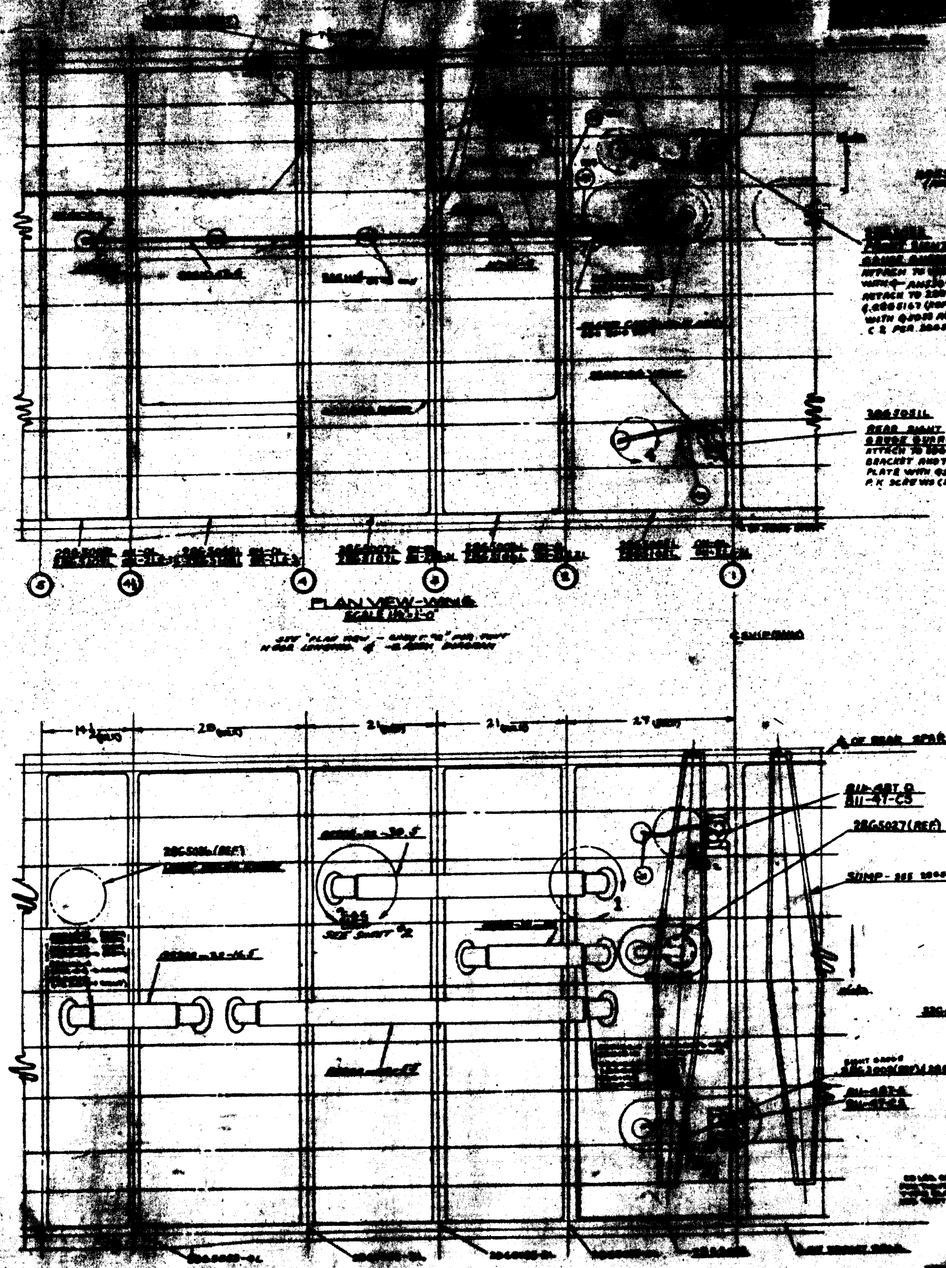
DATE

APPROVED FOR TOOLING BY [illegible] 9/6-43

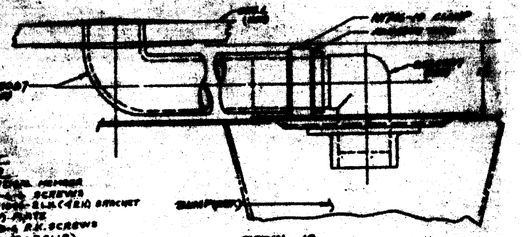
H-437

28F7875 R

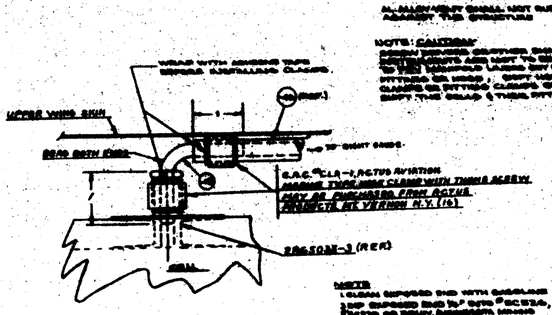
H 438

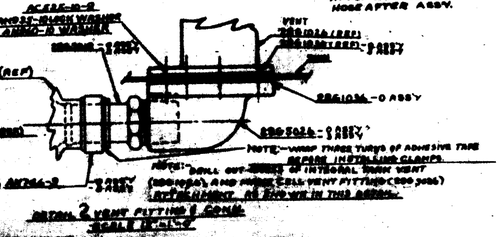


PLAN VIEW-WING
SCALE 1/8"=1'-0"

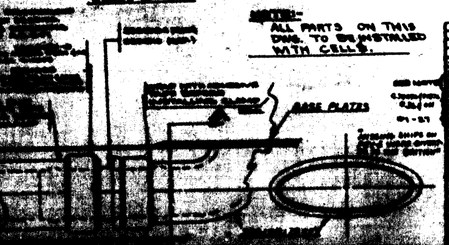


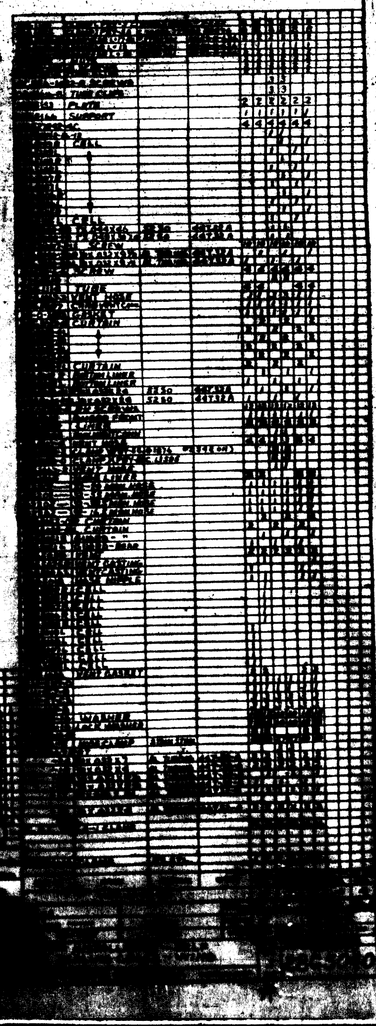
DETAIL 4 TYPICAL FRONT
SCALE 12"=1'-0"



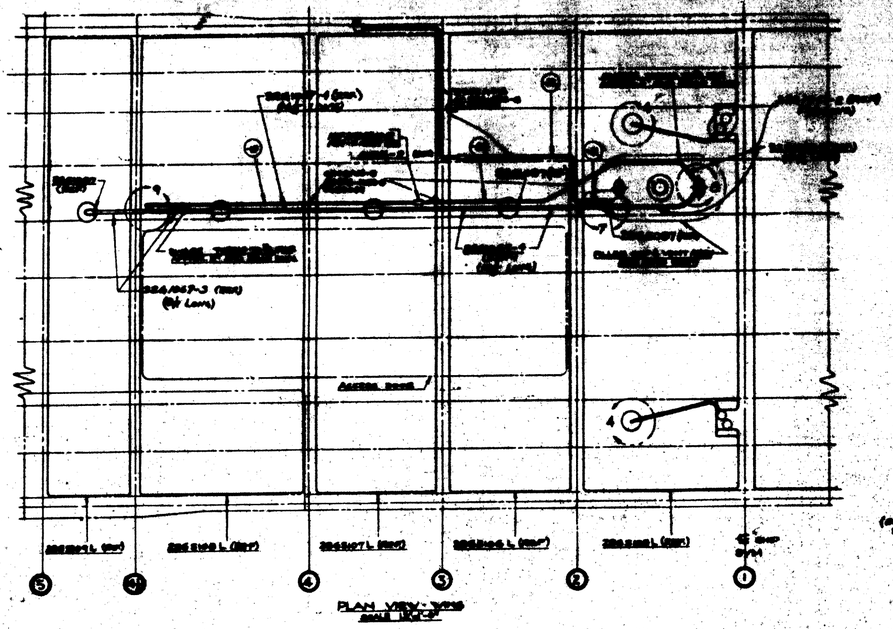


DETAIL 2 VENT FITTING & COVER
SCALE 1"=1'-0"

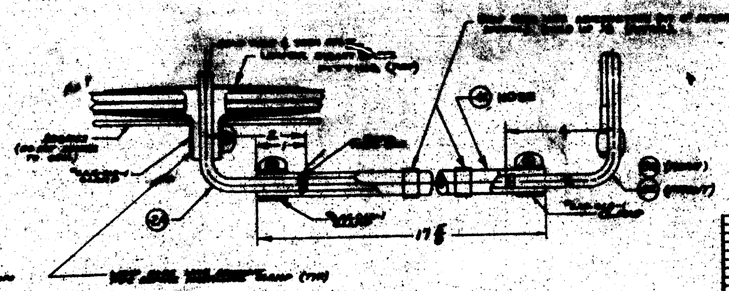




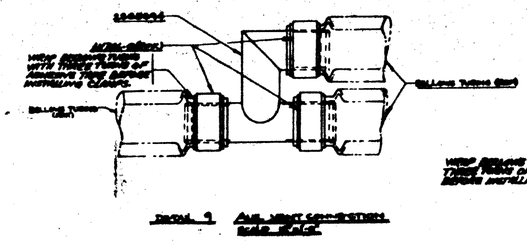
H 439



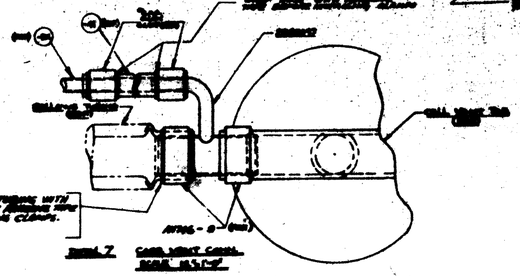
PLAN VIEW - TYPE



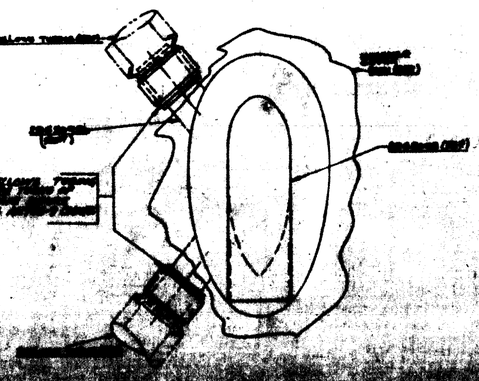
DETAIL 10



DETAIL 9



DETAIL 7



LET	ALTERATIONS	DATE	BY
A	REPLACED 28E8058 OF B-28-10	3-28-41	
B	REPLACED MITTIG WALTER RUDDER CYLINDER ASSY WITH #24790 CYLINDER	3-29-41	
C	SHORTENED -6 TUBE LENGTHENED -7 TUBE	3-29-41	
D	28G5058 BRKT WAS 28F1174 AC811T8CS WAS AC811T8CS AC811BT5D WAS AC811BT8D -13 REMOVED & NOTE ADDED -16 ADDED	3-29-41 3-29-41 3-29-41	
E	REMOVED 28G5068-1 MOTOR RIVET TO 28G5068-6 28E5067 & 28E5068 ADD FROM B/M & FACE NOTE "AS SHN" MOUNTING BOLT ASSY	3-29-41	
F	WAS "28A5068 MKG BASE" ADDED -2 A357 ADDED AC365D1032 TO B/M & FACE OF DWG ADDED NOTE CHG TITLE WORDING.	3-31-41	
G	REMOVED FROM DWG (B/M -10(-6 ADDED -2 (Q5106 D10-10 AND AC365D1032 ADDED -2 (Q5106 D10-10 AND AN960-A10(2) SECT A-A & VIEW B AC811-BT8D (5) HT-8D(1) -T-8D(4)	3-31-41	
H	ADDED -6 0222422 WAS 0393420	4-2-41	
J	ADDED -2 (-6 ASSY) (1) 28B1005-17 (REF) WAS 17 DIM'S AN960-A10(2) AN960-A10(2) SECT A-A & VIEW B AC811-BT8D (5) HT-8D(1) -T-8D(4) CHGD -6 0222422 WAS 0393420	4-25-41 4-25-41	
K	ADDED -2 (-6 ASSY) (1) 28B1005-17 (REF) WAS 17 DIM'S AN960-A10(2) AN960-A10(2) SECT A-A & VIEW B AC811-BT8D (5) HT-8D(1) -T-8D(4) CHGD -6 0222422 WAS 0393420	4-25-41 4-25-41	
L	-7 45° WAS 39 -10 45° WAS 39 LOC OF 1730 & 1784 BULKH 2 & 3 WAS 2 & 3 AC NSP WAS 10 - A 8 WAS 40 - 3 7/16 2 DIA 2 & 4 DIA 7 7/16 DIA 7/8 ETCHED AC 365 D10-32 DIM'S 161 REMOVED -2 ASSY -DC-2 ASSY NOT STAMPED (AN NOTE) 28E8068-2 REQ'D FROM B/M & DWG. AN442 AD8 REPLACED BY AN960-10 DELETE AC365 D A326 DC32	5-2-41	
M	NAF ASSY WAS 28C3000 PARKER BALL CHECK VALVE # ADD FT-8 AC WAS 325 WAS # ADD FT-10 NG WT CHG	5-26-41 5-26-41	
N	REMOVE NAF 213690-4D (1) REPLACED PARKER VALVE # ADD -1 (-8 DIA AC 325 WITH SCHWIEN VALVE #12700 ADDED AC811FT-8D (2) REQ NOTE "WALTER KIDDE OUTBD DISCHARGE FITTING #22315 10 DIA. WAS "WALTER KIDDE OUT BD DISCHARGE FITTING #17908 WT CHG NEG	5-31-41 6-2-41 6-2-41 6-2-41	
P	IN NOTE 3 SHEET THICKNESS .032 WAS .042 WT CHG NEG.	6-26-41	
Q	ADDED 28G5193 (-L & -R) (1) AN960-10 AC1720W2(1) WT CHG NEG	9-16-41 9-16-41	

E.O. AN568 PBY-5 PBY-5A 04-10

E.O. #A22128

E.O. #A51193

E.O. #BA668

(1) PLAN VIEW

FWD

10 VALVE CONTROL HANDLE

#17 (48 REF)

-7 (REF)

-18 (REF)

ACB65D1 (2) #19042

-20 (REF)

TO PULL HANDLE

28G5061 #18175

TO RELIEF VENT

¼" DIA HOLE IN GEAR WEB (REF)

ACB11BT8D NUT ACB11T8CS SLEEVE

28G5061 GASKET (REF)
28G5060 FLANGE (REF)

SECURE WITH AN442 8D RIVETS (REF)

TO FUEL TANK

SCHWIEN VALVE #12700

ACB11FT 8D

-7 (RH ASSY)
-20 (LH ASSY) } SEE NOTE

PURGING DISCHARGE LINES

Sect. A-A

REAR SPAR

B

C

BOTTOM CONTOUR OF WING

28B1005 (REF)

STA 42

STA 92.5

STA 143

STA 193.5

STA 244

STA 294.5

STA 345

STA 395.5

STA 446

STA 496.5

STA 547

STA 597.5

STA 648

STA 698.5

STA 749

STA 799.5

STA 850

STA 900.5

STA 951

STA 1001.5

STA

FBY-5, FBY-5A, DA-10, E.O. 30778

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	[illegible]		
B	BOLT NOT TO BE REMOVED AN3-DA BOLT BY TEC 25-6 ATTACH ANGLE WITH AN3-5 BOLT FWD FACE OF FWD ANGLE TO FACE OF DWG AN3-DSA BOLT	4-15-42	E.O. 30600 DATED FBY-5 & 5A, 10 DEC 41 AAC
C	ADDED 28-5MC & AMC SHEET 2 & SHEET 4	9-4-42	
D	ADDED LIMITATIONS TO FBY-5 & FBY-5A A/C IN RED & BLK AIRPLANE BLOCK ADDED REPLACED BY [illegible]	5-13-43	

LINE DRILL #10 (.193)

AN810-2R PULLEY WITH 4 SPECIAL LIGHT DUTY "TAFNOR" BEARING
AN3 – 10 BOLT
AN310 – 3 NUT
AN380-2-2 COTTER

28G1033-8 L.H., -7 R.H.

60° (REF)

5 3/4 (REF)

28G5064 L

1 7/8

3

30°

1 3/8

2

1 5/8

28G1033-6 L.H., -7 R.H.

28G1033-2 L.H., -3 R.H.

(A)

(7)L SAME AS 28G1033-4 LH -7R SAME AS 2 G1033-5 RH EXCEPT AS SHOWN

22P557 GUARD

NOTES-

THIS DWG 28G5062 PULLEY INSTALL REPLACES 28G1033 PULLEY INSTALL FOR FBY-5 AIRPLANES AS NOTED BELOW

SEE 28G1033 FOR INSTALLATION DETAILS NOT SHOWN ON THIS DWG

DRILL #10 (.193) FOR AN3 BOLTS

FRONT SPAR (REF)

AN442 D4 RIVET

8° (REF)

AIRPLANE

28G5065 L
BEND TO CLEAR FLOAT CONTROL TUBE

28L075 FLOAT CONTROL TUBE (REF)

28G5066 L

AN3-4A BOLT
AC365-1032 NUT
AN960-10L WASHER

AN3-DSA BOLT (REF)

28P035 (REF) PULLEY INSTALL ENG CONTROLS

28G5063 L CLIP

(6) FILLER

28W013 – (REF)

28W002-109, -110 (REF)

14 1/8

FRONT VIEW LOOKING AFT

3 1/2

10°

3 EQUAL SPACES

4.500

3 17/32

3 7/16

EQPT WITH TAFNOR SMC LIGHT DUTY BEARING

AN442D6 RIVET

10496-7713 ONLY

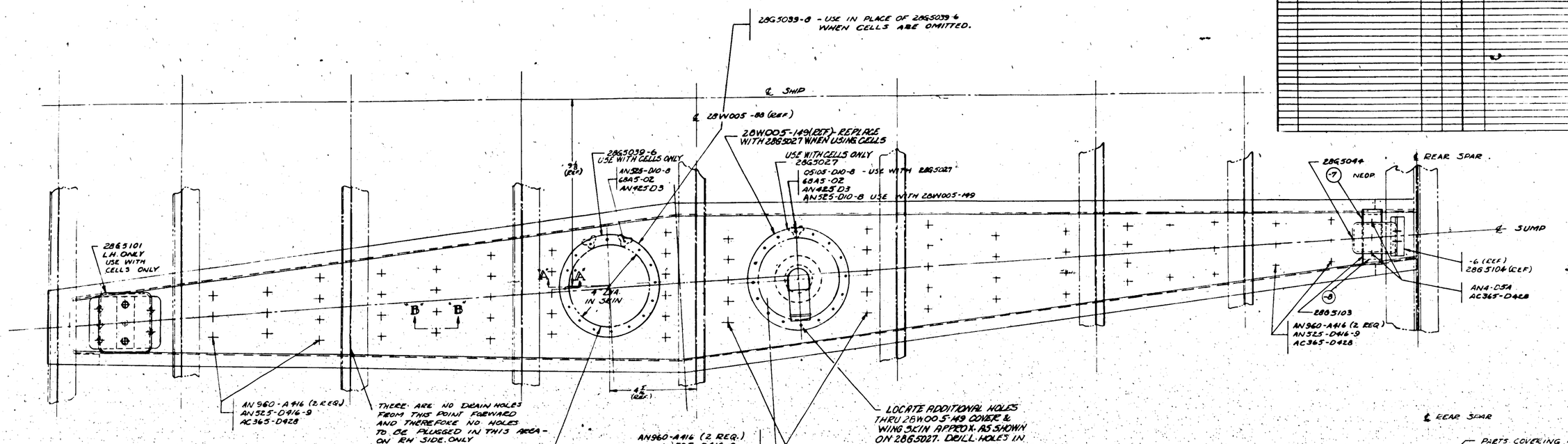
FRONT SPAR

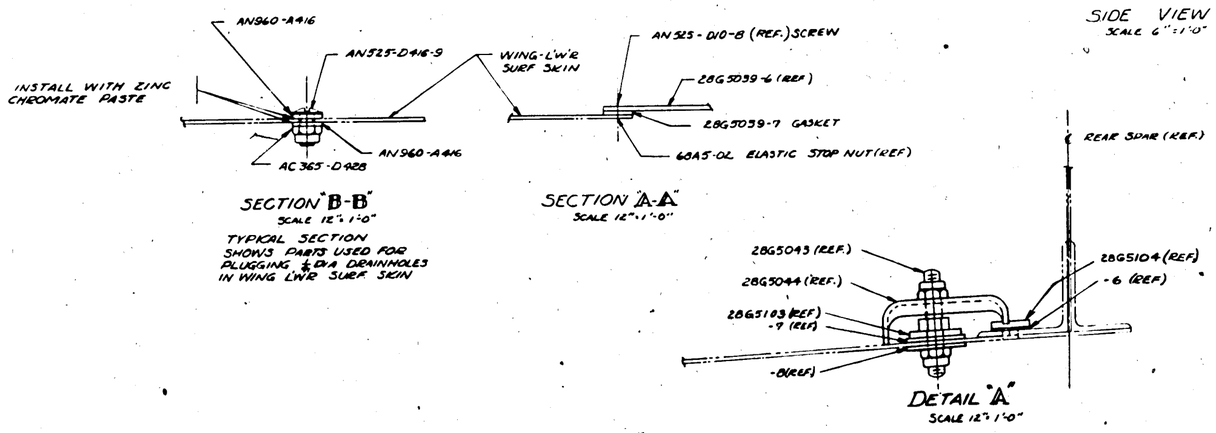
70536-40 TO 1ST ONLY

SIDE VIEW

| | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY





GENERAL NOTES:

1. THIS DRAWING TO BE USED TO ACCOMPLISH CONTRACT CHANGE 'W' ON PBY-5 SHIPS BUREAU SERIAL NOS 2289, 2291-2293 INC AND 2301-2329 INC. (27 SHIPS) ONLY.
2. ALL WORK INDICATED ON THIS DRAWING TO BE DONE BY NAVY PERSONNEL
3. ALL PARTS CALLED IN B/M OF THIS DRAWING TO BE FURNISHED BY C.A.C.
4. THIS DRAWING SHOWS ONLY CHANGES TO BE MADE IN EXISTING SHIPS (BUILT AS PER 28G2005) TO MAKE PROVISIONS FOR SELF SEALING CELL INSTALL.
5. THE FOLLOWING PROVISIONS TO BE ACCOMPLISHED AT ANY TIME PRIOR TO FUEL CELL INSTALL:
   - A ENLARGE 2" DIA DRAIN HOLE TO 4" DIA
   - B INSTALL AN525-D416-9 SCREWS, AC365-D428 NUTS AND AN960-416 WASHERS TO PLUG ¼" DRAIN HOLES AS SHOWN ON SECT B-B AND PLAN VIEW OF THIS D'W'G.
   - C INSTALL 28G5039-8 OVER DRAIN HOLE ENLARGED TO 4" DIA AS SHOW ON THIS DRAWING.
   - D REWORK 28W005-149 COVER AND REINSTALL AS SHOWN ON THIS DRAWING
6. THE FOLLOWING PROVISIONS NOT TO BE ACCOMPLISHED UNTIL THE TIME OF INSTALL OF FUEL CELLS
   - A REMOVE 28G5039-8, 28W005-148 AND REPLACE WITH 28G5039-6 & 28G5027 RESPECTIVELY
   - B COVER ¼" DRAIN HOLES AT FRONT AND REAR OF SUMP AS SHOWN ON THIS DRAWING.
   - C. AFTER COMPLETING INST. OF THESE DETAILS PRESSURE TEST SUMP WITH 3 LBS. SQ. IN. USING SOAPY WATER ON INSIDE OF GAS TANK TO INSURE GAS TIGHTNESS BETWEEN SUMP AND TANK.

See Note #1

LET	MODEL	NEXT ASSY	USE ON
A	PBY-5	28W5043	1
B	PBY-5A	28W5043	1

REQUIREMENTS PER AIRPLANE
REPLACED
REPLACED BY
NEXT ASSY USE ON

PART NO	STOCK	MATERIAL	SPEC	-0 REQ	-2 REQ	-3 REQ	-4 REQ	-5 REQ
02105-D10-8				2	2	2	2	2
AN525-D10-8				28	28	28	28	28
AC365-D428				75 AR				
AN425 D3				13	13	13	13	13
AN525-D416-9				63	63	63	63	63
AN960-A416				76	76	76	76	76
AC365-428				2 AR	2 AR	2 AR	2 AR	2 AR
AN4-D5A				2	2	2	2	2
6BA5-02	ELASTIC STOP NUT			32	32	32	32	32
28G2043	STUD							
28G5044	COVER							
28G5039-7	GASKET							
28G5117-6	COVER							
28G5027	FITTING							
28G5039-8	COVER							
28G5104								
28G5103								
28G5101								

-8 .064 = 1/16 = 2/64 ALC 2457 #7/AB Cond
-7 1/8 = 1/8 = 2 3/64 NEOPRENE N-11
-6 3/16 = 3/16 = 3/64 NEOPRENE N-11

PARTS LIST PER ASSY

A.C.
NAVY
HEAT TREAT FINISH

NAME SUMP DETAILS - WING - SELF SEALING CELLS

CONSOLIDATED AIRCRAFT CORP SAN DIEGO CALIF

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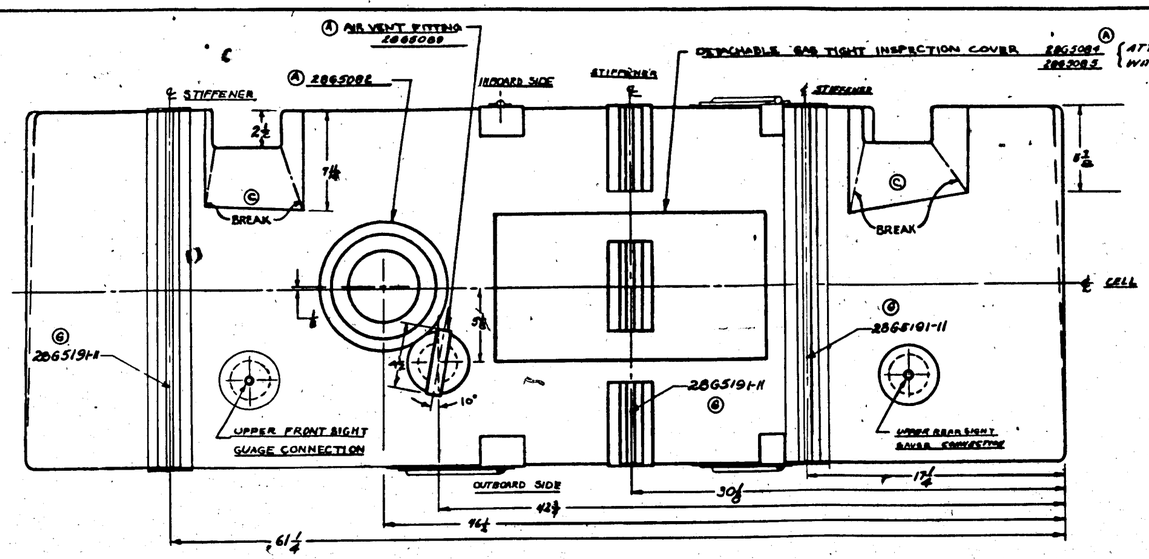
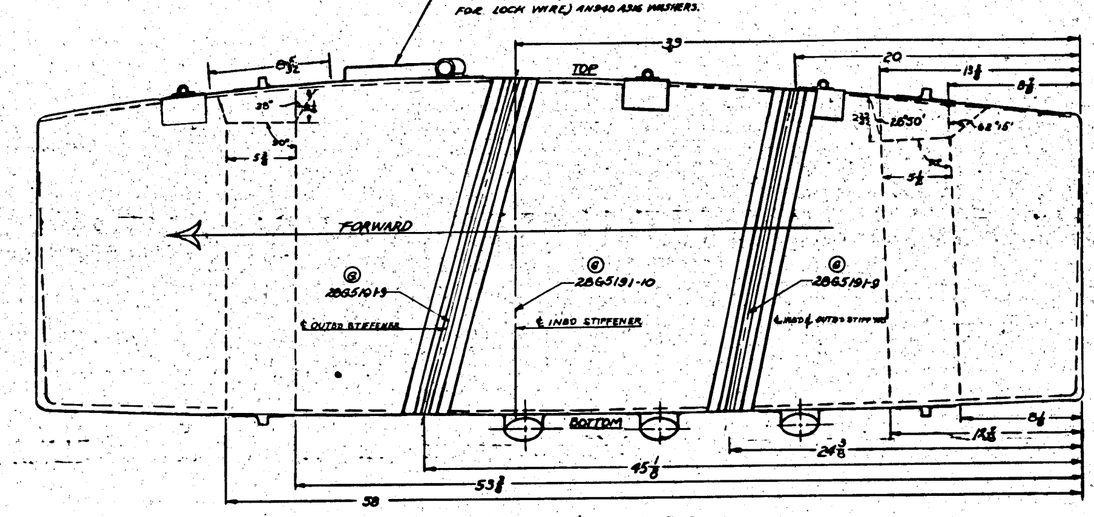
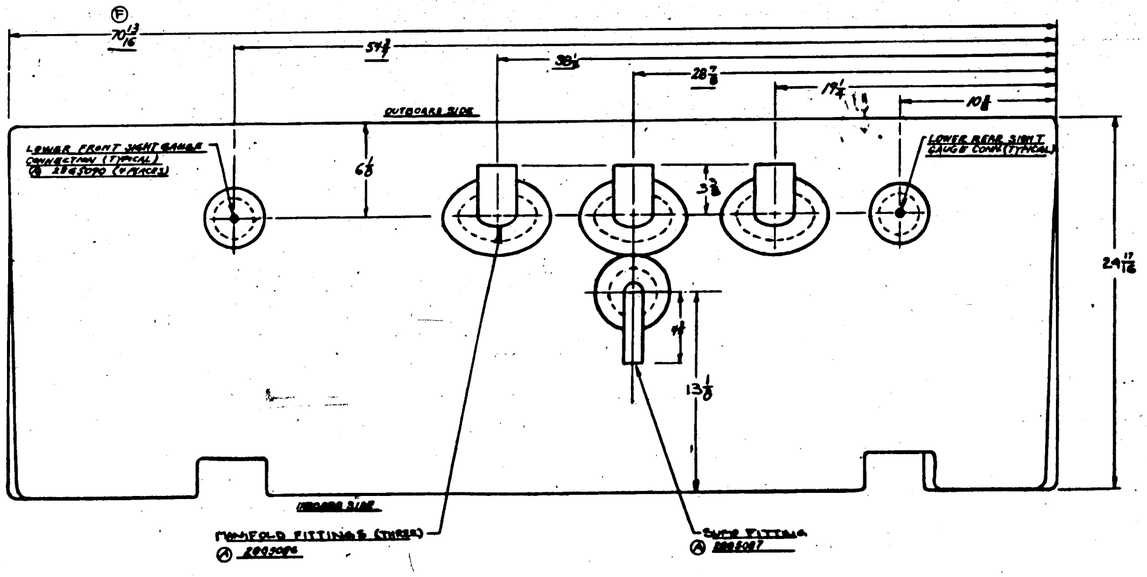


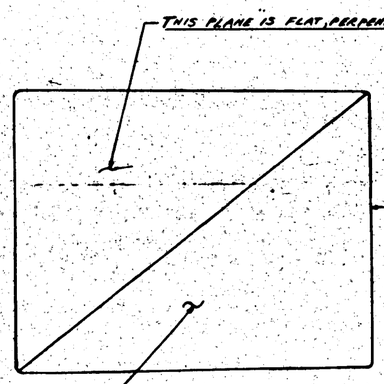
PLAN VIEW



SIDE VIEW-LOOKING INBOARD



BOTTOM VIEW



REAR VIEW

Ⓐ NOTE: ALL PARTS AS CALLED FOR ARE FURNISHED AND INSTALLED ON CELLS BY VENDOR. ALL BOLTS TO BE PRIMED BEFORE ASS'Y & MEAN REPRIMED AFTER WIRING. LOCK WITH SINGLE SAFETY WIRE.

Ⓓ NOTE: ALL GOODYEAR SELF SEALING CELL INSPECTION COVERS WITH ¼ BOLTS ARE TO BE SECURED WITH PERMATEX #2 PASTE AND A TORQUE OF 65 TO 75 IN. LBS.

LET	ALTERATIONS	DATE	BY
	8 RIB FACE 1 IN. W. TO 1 1/16		
	CHANGE 2 FLANGE TO 3 FLANGE		
	STIFFENERS AS CALLED-SEE CHART		
	CHANGE WT. GAGE NOTE		

LET	ALTERATIONS	DATE	BY
A	CHANGE NOTE 4 & DETAIL OF FILLER NECK	8-24-43	
	FIT -30 AND -31 INSTEAD OF -29 AS CALLED-FOR. FILLER NECK 2865022-10 ATTACH 12 BOLTS INSTEAD OF 11		
	CHANGE NOTE 4 TO READ: ALL FITTINGS SHOWN ARE FURNISHED BY VENDOR, AND ARE TO BE MOLDED FROM SYNTHETIC RUBBER IMPERVIOUS TO GAS, AND TO BE VULCANIZED TO CELL IN LOCATIONS AS SHOWN.		
	CHANGE NOTE 5 TO READ: REMOVABLE STIFFENERS TO BE INSTALLED IN LOCATIONS INDICATED ON DRAWING TO PREVENT SAG AND PERMANENT SET OF CELL WALLS UNDER OPERATING CONDITIONS.		
	ADD NOTE 6		
	CHANGE 2865191-9 TO 2865191-10 AND ADD -11		
	ADD 2865087 SUMP FITTING		
	ADD 2865095 MANIFOLD FITTINGS		
	ADD 2865096 FILLER NECK		
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	ADD 2865589 FILLER FITTINGS		
	ADD 2865590 FILLER COVER		
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	ADD 2865602 FILLER COVER		
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	ADD 2865703 FILLER FITTINGS		
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	ADD 2865706 FILLER COVER		
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	ADD 2865710 FILLER COVER		
	ADD 2865711 FILLER FITTINGS		
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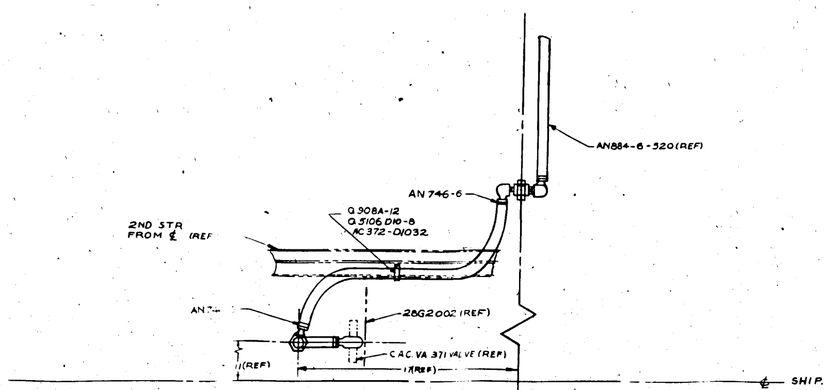
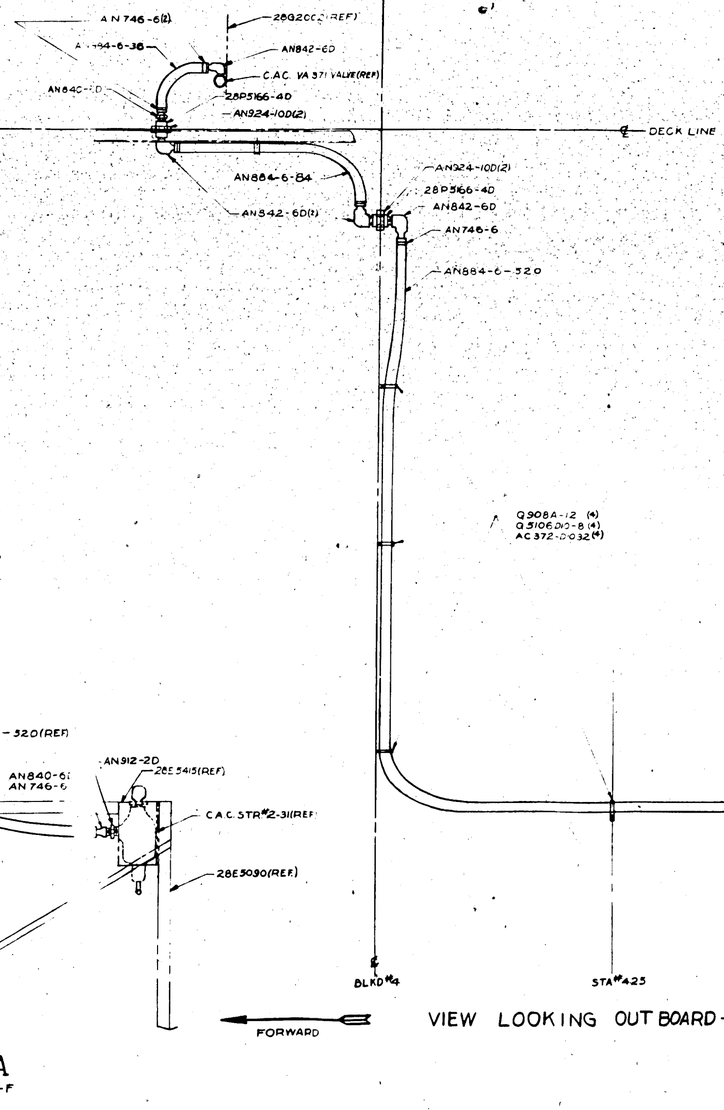
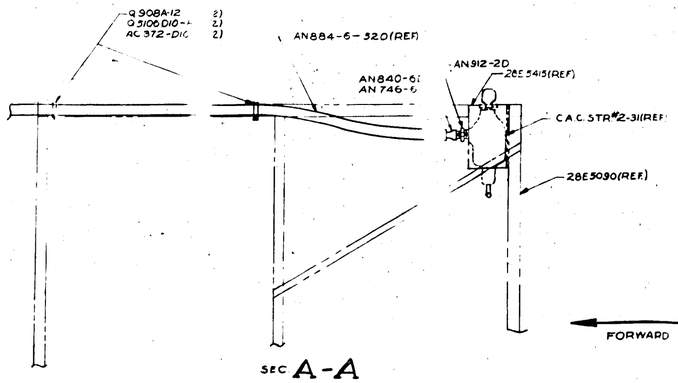
	ADD 2865713 FILLER FITTINGS		
	ADD 2865714 FILLER COVER		
	ADD 2865715 FILLER FITTINGS		
	ADD 2865716 FILLER NECK		
	ADD 2865717 FILLER FITTINGS		

MET	ALTERATION	DATE	BY	MET	ALTERATION	DATE	BY
					ADD AN ADDITIONAL BRACKET ASSY'D IN ACCORDANCE WITH ECN NO. 1 & CAN NOW INCLUDE 28G5196-5 & -6		



PLAN VIEW

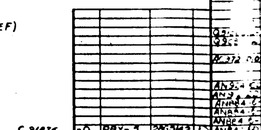




SEC A-A
ZONE 2-F

FORWARD

VIEW LOOKING OUTBOARD - ST'BD SIDE

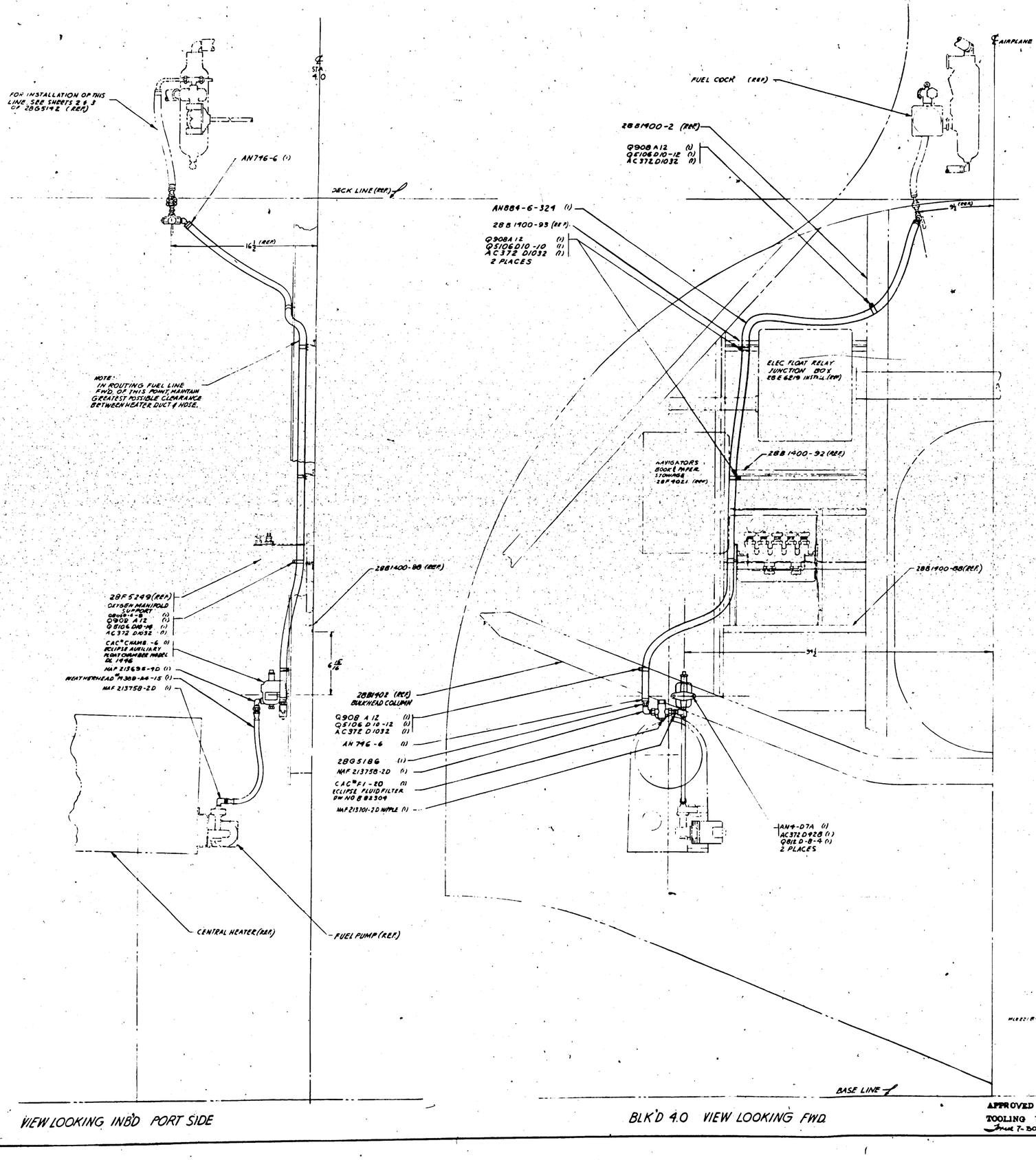


APPROVED FOR TOOLING BY
J. Howard
9/14/83

C 91876

| | | | | |

LET	ALTERATION	DATE	BY
A	CHICAGO WEATHERHEAD MFG'G REVISED AS TO CONN. & HOSE (4X11) TO WEATHERHEAD HOSE 6-50 AND CONN. & HOSE (4X10) TO CAC CHAMB. -6	8-25-44	WC



NOTE
THE FOLLOWING C.V.A.C.'S MAY BE PURCHASED FROM THE VENDORS LISTED BELOW:

C.V.A.C. "CHAMB-6 - ECLIPSE AVIATION CORP EAST ORANGE NEW JERSEY
C.V.A.C. "FI-20 : ECLIPSE AVIATION CORP BENDIX NEW JERSEY
C.V.A.C. "HOS 6-50 - WEATHERHEAD CO CLEVELAND OHIO

APPROVED FOR TOOLING BY June 7-30-43

NAVY NONE	NONE	STOCK SIZE	
HEAT TREAT	FINISH	DRAFT	CHECK
NAME INSTALLATION-CENTRAL HEATER FUEL SYSTEM		OPR HAND	NONE
		SIZE J	28G5549

28G5549 R

H-446

SEE BUREAU CHANGE NO. 87 - PBY-1
" " " NO. 45 - PBY-2

LET	ALTERATION	DATE	BY
AG	TRACED UP TO DATE	5-15-39	NVB
AH	AN6-81 WAS AN6-82 (FOR PBY-2 ONLY)	7-10-37	
AI	CHANGED AC 1395-2-6 TO AC 938x32-6	9-10-37	
AK	ADDED AN1020-1 RH 1000 TO 0999 & RH; ADDED AN1020-1 LH REQ'D	"	"
AL	ADDED COMM "2 REQ'D	3-9-38	
AM	REVISED NOTE	4-12-38	
AN	ADDED ZBH3005-3 & -4 & NOTE	7-6-39	
AO	ADDED -11 TUBE (WITH RUBBER VALVE STEM) AND -12 ASSEM. FOR ALL FUTURE SHIPS & SPARES ADDED NOTE TO OMIT HOLES	"	"
AP	REMOVED DRILL & ASS'Y NOTES	10-17-39	
AQ	AN320-8-8 WAS AN320-8-9 REMOVED ZBH1050-1 & REQ. ADDED "REQ.R.H." ON ZBH1050	2-27-40	
AR	ADDED "OR 'E' OR EQUIV." TO -7 NOTE ADDED "OR GOODRICH" & "OR EQUIV." TO -8 NOTE NO WT. CHG. IN ASSY.		

C.O. 76150

E.O. 12666A

F-F
FULL SIZE

DRILL 9/64 -2 HOLES CSK 78° x B
(AL) NOTE: OMIT THESE HOLES ON -12 ASS'Y.

VIEW B-B

AN789-17 (OR EQUIVALENT - FURNISHED WITH WHEELS) - 2 PER WHEEL THREADED OR PRESSED IN FITTING

3/4 DIA SPOTFACE AS SHOWN

DETAIL E
FULL SIZE

(AM) NOTE: ON SHIPS HAVING -8 TYPE TUBE INSTALL ZBH3005-3 & -4 AS SHOWN ON DWG. ZBR176. (OR DETAIL ON ZBH3005)

(-7) 11.00 X 12 6 PLY SMOOTH B.F. GOODRICH LOW PRESSURE TIRE, OR EQUIVALENT (AR)

(-8) 11 X 12 B.F. GOODRICH TUBE, OR EQUIVALENT, WITH SPECIAL SCHRADER VALVE OR EQUIVALENT (WITH LEAD WASHER) FOR WATER FILLING (AR)

NOTE:
(AK) USE (-11) TUBE (RUBBER VALVE STEM, SCHRADER #7423-B) FOR ALL FUTURE SHIPS & SPARES.

(-6) 11 X 12 BEACHING GEAR WHEELS (NO BRAKES), MATERIAL, WORKMANSHIP AND FINISH IN ACCORD WITH AC SPEC 25268 EXCEPT FOR:
- 2 LUBRICATORS AS SHOWN IN DETAIL E
- VALVE ACCESS HOLES AS SHOWN IN VIEW B-B & F-F
- INNER & OUTER RACES & CAGE OF ROLLER BEARINGS TO BE CHROMIUM PLATED.
(HOLD 32 HOLES BETWEEN BEARINGS - REF)

(-3) SPACER - OUTER WHEEL ONLY (BENDIX #50138) TO BE FURNISHED WITH WHEELS

PAINT LARGE BLACK LETTERS

PEEN OVER

ZBH041

(AM) AN6-51 - FOR PBY-2 ONLY
AN6-52 FOR PBY-1 & XPBY-1 ONLY
AN315-6R
PEEN OR PRICK PUNCH ENDS (AP)

FORWARD

VIEW D-D
QUARTER SIZE

NOTE:
RELATION OF STRUT OFFSET TO CASTING AS SHOWN

(-10) SHIM - .015 TO .025 CH MOLY SHEET SPEC 47514 (OR CORR. RES SHEET SPEC 47519) INSERT BETWEEN CASTING & STRUT AT BOLTS TO PREVENT CRACKING OF CASTINGS WHEN TIGHTENING BOLTS NUTS NEED NOT BE VERY TIGHT

ZBH2013 - PBY-2
ZZH301
ZZH815
SEE DETAIL G FOR ATTACHMENT } XPBY-1 & PBY-1

AN8-61
AN315-8R
PEEN OR PRICK PUNCH ENDS (AP)

AN442-D2 DRILL 1/16
5 HOLES - CSK AS SHOWN

STAMP SOLID AREA OR 75% RATE

ZZH342-1

102.00 OUTER CONE
103.37 OUTER CUP

TIMKEN BEARINGS (REF)

39250 INNER CONE
39412 INNER CUP

(-5) AC 32A510 - 2 NUT
AC 32A509 - 2 TAB WASH.
AN380-5B - 10 COTTER
TO BE FURNISHED WITH WHEELS

(-9) MILE TO CONFORM WITH AC SPEC #28258
COLLAR & PLUG AS ON BENDIX DWG #25993
(2) TWO SEALING WASHERS
FELT RING
LOCKING RING
TO BE FURNISHED WITH WHEELS
(COLLAR, SEALWASHER & LOCKRING TO BE STAINLESS STEEL OR EQUIVALENT)

93801-19
SHELLAC IN PLACE

(-4) GWILLIAM ET 34 B'RG. - THE GWILLIAM CO 360 FURMAN ST. BROOKLYN NY OR EQUIVALENT, FOR SIZE AND LOAD CAP THE (2) TWO BEARING RACES SHOULD BE CADMIUM PLATED (PLATING TO BE DONE, EITHER BY VENDOR OR BY CONSOLIDATED AIRCRAFT CORP)

ZZH392

B DRILL THRU ONE SIDE ONLY
AN285-17 (PBY-1) & WIRE WITH AC995-72-6 THRU
AN285-11 (PBY-2) CENTER HOLE (AL)

PBY-1 - ZZH338
PBY-2 - ZBH2029

ZBH1039 FOR PBY-1
ZBH2039 FOR PBY-2

STRUT

PIN (AP)

ZBH040

ZBH1049

AN520-8-8
AN935-8 (AO)
ZZH785

ZBH1048 - 2 REQ'D
ZZH787 - 2 REQ'D.
AN3-11
AN320-3
AN380-8Z-2

(REF)
WITH ZZH301 ONLY
WITH ZBH2013 ONLY (REF)

DRILL #28 (.141) ON REAR SIDE

ZBH050

ZZH345

ZBH047

ANG-35
AN310-6
AN380B-3-3
DRILL 3/8 DIA - 2 HOLES

AN442-D2
DRILL 1/16 - 5 HOLES
CSK AS SHOWN

ZZH742-2

STAMP SOLID AREA OR 75% RATE

(-2) PLAIN HEX HUB CAP TO BE FURNISHED WITH WHEELS

ZBH1050 WITH TOWING LUG TOWARD FRONT

ZBH1051
INSTALL AS SHOWN WITH
AN960-616 & AN3808-3-4

VIEW C-C

ZBH1049 SHALL BE INSTALLED TO ALLOW LOCK PIN GRIP THE AN'T OF ROTATION SHOWN

A-A

DRILL 3/16 - 4 HOLES
LOCATE FROM ZZH815
AN3-6, AN320-3
AN380-8Z-2

ZZH815

DETAIL G FOR PBY-1 & XPBY-1 ONLY

~ LUBRICATION NOTE ~

AT ASS'Y & SERVICE OVERHAUL FILL ALL SPACES MARKED 'L' WITH LUBRICANT 'NO-OX-ID' GRADE A-SP DEARBORN CHEM. CO 2056-42 ST NY-NY OR EQUIVALENT CORROSION PREVENT PRODUCT OF HEAVY GREASE CONSISTENCY - AFTER ASS'Y PRESS IN MORE LUBRICANT (7 PLACES) WITH GUN, FILLING ALL POCKETS TO EXCLUDE THE ACCUMULATION OF WATER. USE OF ONE OR TWO ALEMITE LUBRICATORS OPTIONAL

ANISH NOTES:

PAINT -3 CAP STEP RED
PAINT GEAR HANDLES TO BE PAINTED BLACK
PIN ENDS TO BE FREE OF PAINT
LUBRICANT POINTS YELLOW.

PAINT LARGE BLACK LETTERS
L H AS SHOWN
PAINT R H ON ZBH006-1

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
K	TRACED UP TO DATE.	5-15-41	DAS
L	WAS 28H1009 CLIP	1-1-41	
M	ADDED AN960-6 (8 PLACES)	5-10-41	
N	REPLACED AN4836 (4 REQ'D) WITH AN820-10-10 & AN960-10. ADDED NOTE: DRILL & TAP #10-32 ETC.	5-15-41	
P	CHGD NOTE "ACCO" & ---- (ORIG) WAS "ACCO" & BRASS TENSO CHAIN - 10" LONG" ADDED	7-11-41	

E.O. 19501
E.O. 21214

APPROX. ½" UNDER LOAD FACES OF FITTING REST AGAINST LUG

28H1005

NOTE - SCREW IN BOLT TILL SPRING IS SLIGHTLY COMPR. BOLT SHOULD NOT EXTEND BEYOND BOTTOM OF YOKE.

28H1005-3 (REF.)

28H1018 SPRING

22H564

CLEAN UP BURRS AROUND HOLES AFTER ASSY. WITH 28H1018

L

AN 265-17

(N) AN 520-10-10 SCREW
AN 935-10 LOCKWASHER
DRILL & TAP #10-32.
INSTALL SCREW WITH WET PAINT.
ONE PLACE ONLY

28H1016 BOLT

28H1057 (REF.)

AN 380-3-5

A-A

A

A

28H1001 (REF.) STEERING BAR

28H1058 - 5.00:4-6 PLY TIRE & WHEEL
INFLATE 45 TO 50 LBS. AIR PRESSURE

28H1059 - AXLE

28H1060 NUT

AN 4-17 BOLT
AN 310-4 NUT
AN 380-2-2 COTTER
AN 960-416 WASHER

AN 4-28 BOLT
AN 310-4 NUT
AN 380-2-2 COTTER
AN 960-416 WASHER

KEEL LINE

28H1050

AN 435-4-5

STORED POSITION

(L) Q-115 PIN

NOTE:- OPEN LAST LINK, INSERT Q-115 PIN AND CLOSE AGAIN.

28H1011

AN 435-4-12
(M) AN 960-6

(P)
(-2) ACCO #2 BRASS (OR ZINC ELECTRO PLATED STEEL) TENSO CHAIN OR EQUIV. 10" LONG. (AM CHAIN CO. SAN FRANCISCO, CALIF.)

(M) AN 435-4-5
AN 960-6

DO NOT PUSH HERE

28H1005

(M) AN 435-4-5
AN 960-6

AN 820-6-8
AN 815-6460-R
PEEN END

CHAIN -2

AN 27-27
AN 960-716
AN 820-7
AN 380-3-3

¾ - NORMAL POSITION
1⅛ - EXTENDED

28H1057 SOCKET

— LUBRICATION NOTE —
8 PLACES. USE NO. OX-10 LUBR. (SEE NEXT ASSY. FOR COMM. SPECS.

SPARES

PBY-5A	28H1005	1	28H1058
PBY-5B	28H1005	1	28H1059
28-5MB	28H1005		28H1059B
28-5MC			28H1057
28-5MB			28H1016
28-5ME			22H564
PBY-5		1	28H1018
PBY-4	28H1002		28H1048
PBY-5	28H1005		28H1050
PBY-5	28H1005		
PBY-1	28H1002	1	28H1011
			28H1005

PARTS

AN 935	C	1	1
AN 520	C	3	3
AN 960	C	3	3
AN 435	-	1	1
AN 960	416	5	5
AN 380	2-3	5	5
AN 3	-	5	5
AN 4	-25	1	1
AN 4	-17	2	2
AN 815	-6460R	1	1
AN 820	-6-8	1	1
AN 435	-4-12	1	1
AN 380	-3-3	1	1
AN 265	-17	1	1
AN 435	-4-5	6	6
AN 380	-3-3	1	1
AN 820	-7	1	1
AN 960	716	1	1
AN 27	-27	1	1
(L) Q	-115	1	1
28H1005	-3	1	1
28H1058		1	1
28H1059		1	1
28H1059B		1	1
28H1057		1	1
28H1016		1	1
22H564		1	1
28H1018		1	1
28H1048		1	1
28H1050		1	1
28H1011		1	1
28H1005		1	1

PARTS LIST PER ASSY.

REPLACES	K (M) APPROVED	6-15-37 DATE	
REPLACED BY	—		
LIST OF DISCREPANCIES WAIVED	—		
CALC WT.	ACT. WT. 62	G.H.	MODEL
SCALE 6" = 1'-0"			NEXT ASSY.
AC			REQUIREMENTS FOR AIRPLANE
NAVY	—	—	—
MATERIAL	SPEC.	NEXT HIGHER	FINISH

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

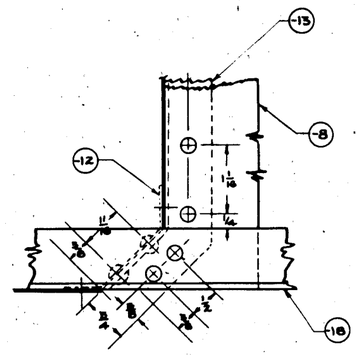
NAME: TAILWHEEL ASS'Y. BEACHING GEAR

DWG. NO. J 28H10

H 448

17 | 18 | 19 | 20 | 21 | 22 | 23

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
A	PNS-13, REMOVED AL ALLOY 24ST 3/4 x 3/4 x 1/8 ANGLE FOR-13, NAME D-13, RE-PLACED 7/16 DIA x .040 ANGLE AL ALLOY 24ST WITH Y-12-A12T. WT CHG REQ		
B	"A" ALT. WAS "AC" NO WT CHG.		



SECTION - P-P

APPROX. CONTOUR FOR BOT. SHEET & ANGLE DETERMINE EXACT FIT FROM SHIP

PLAN VIEW OF BOX

APPROX. CONTOUR FOR SHEET -7 & ANGLE AS CALLED FOR IN SECTION - J-J

-7 TOP SHEET .040 6X12 1/2 X 19 LONG AL ALLOY 24 ST

CUTOUT FOR BELTFRAME "O.66

-27

APPROX. 1 1/2 SPACING

-9 12 5/8 X .040 X Z 2 3/32 AL ALLOY SHEET 24 ST

Y-8-A12T APPROX. 2 3/4 LONG -18

-13 A

APPROX. 1 1/2 SPACING

7 7/8

APPROX. 1 1/2 SPACING

-6 TOP SHEET .040 6X12 1/2 X 17 LONG AL ALLOY 24 ST

-10

APPROX. 1 SPACING

15/16

6 1/2

REEL

REEL

6 1/2 X .040 X Z 2 3/32 AL ALLOY SHEET 24 ST -8

P

-12

-4

-18

1 1/2

3/4

.040 JOGGLE

1 1/16

3

3/4

-22

P

-5

℄ FRAME "O.66

℄ FRAME "O.33

BULKHEAD "J-00

18 1/4 TO ℄ OF SHIP

SECTION M-M

5/16

1

-12 .040 AL ALLOY SHEET 24 SO H.T. BEBS (CONST) AFTER FORMING

SHEET NO. 2
OF 2 SHEETS

REPLACED	APPROVED	DATE
REPLACED BY		
LIMIT OR DIMENSIONS HOLDED OTHERWISE SPECIFIED ± 1/32	SCALE 1/8"=1'-0"	

PBY-5	2041012							
PBY-4	2041012							
PBY-3	2041012							
PBY-2	2041012							
PBY-1	2041012							
O.N.	MODEL	NEXT ASSY	REQ	STD PARTS			PART NO.	
REQUIREMENTS PER AIRPLANE				MAT.			PARTS LIST PER	

AC	NAVY	NOTED	NOTED	NOTED	NOTED
	MATERIAL	SPEC.	HEAT TREAT	FINISH	

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME: ANCHOR BOX ASSY.
ANCHOR ASSY.

J2 02

H 449

INCORPORATES
PBY-5 BUREAU CHANGE NO. 22

INCORP BUR. AERO. CHANGE #38 PBY-5

LET	ALTERATION	DATE	BY
J	TRACED	4-25-42	
K	ADDED -3 & -4 & DETAIL SHOWING INSTALLATION	5-8-42	
L	ADDED 28H005-11 TUBE (WITH RUBBER VALVE STEM) AND -2 ASSEM. FOR ALL FUTURE SHIPS & SPARES	6-29-42	
M	REMOVED ASSY & DRILL NOTES	7-14-42	
N	CHANGED DIM 1.50 & CHG DRAWING FROM 1/4 - 28 TO 1/4-28 N.F.2B. ADDED PART 6	7-8-42	
P	ADDED -5 & -6 SCREW, WASHER & T REMOVED BURR NOTE FROM FACE OF PIN	9-8-42	
Q	ON PRICE B EXISTING GEAR TIRES TO BE T.L.Y. (H. 60 x 18) WHERE B. A.F.Y.	9-29-42	
R	ADD NOTE "DRILL #31" AN533-8-4(4)	11-7-42	

DETAIL SHOWING METHOD OF SEALING VALVE OPENING ON SHIPS HAVING 28H005-8 TYPE OF TUBE.
SCALE 24"=1'-0" (K)

TIRE BEAD (REF.)
WHEEL CASTING (REF.)
INNER TUBE (REF.)
(-3) WASHER - 2½ O.D. × ½ I.D. MAT'L. - 1/16 THICK NEOPRENE SPEC. - COMM.
BLACK BOSTICK - APPLY A LIBERAL COAT (1/16 THICK) OVER THE NUT IN ORDER TO FILL THE TWO GAPS AT THE STEM FLATS IN NUT.
SCHRADER VALVE (REF.)
(-4) SOFT ALUM. (2S0) WASHER 5/8 O.D. × 5/16 I.D. × .063 SPEC. 47AE, TEMPER 'A'
NEOPRENE INSULATOR (REF.)
STAINLESS ST'L. VALVE ATTACH. PLATE (REF.)
DIRECTION OF FLATS
NOTE - VENDOR TO SET FLATS OF VALVE STEM CROSSWAYS AS SHOWN

(L) 28H005-11 TUBE (RUBBER VALVE STEM SCHRADER #7423-B) FOR ALL FUTURE SHIPS & SPARES
(P) 28H005-7 11.00 X 12 6 PLY SMOOTH GOODRICH LOW PRESS. TIRE
28H005-8 TUBE WITH METAL SCHRADER VALVE

28H3016-61.00 X 12 WHEEL & BRAKE ASS'Y.) ON -0 ASS'Y
28H3018-5(" " " ") ON -5 ASS'Y
OUTSIDE WHEEL G-3-10 R. (REF. 28H3014)

(-2) AXLE ASSEMBLY AS PER HAYES DWG. (B-1-30) HAYES DWG. (B-1-7) BENDIX DWG (25993) — OR EQUIV.
FOLLOWING PARTS FURNISHED WITH AXLES:
REF. — AXLE TO CONFORM WITH AC SPEC. 25269; PLUG - END OF AXLE; CORK - SHELLAC IN PLACE; COLLAR - AC 34415; NUT — AC 32A510-2; WASHER-AC 32A503-2; COTTER - AN380-5-10

BALL & ROLLER BEAR. CO. EM-41 OR EQUIV. THE TWO BEARING RACES SHOULD BE CADMIUM PLATED (PLATING TO BE DONE EITHER BY VENDOR OR CONSOLIDATED AIRCRAFT CORP.)

28H2029-5
82H392
1/16 DRILL THRU. WIRE WITH AC 995-72-12 BRING SAFETY WIRE AROUND SIDE & MAKE SURE THAT IT CANNOT SLIP OVER EDGE.
AN 285-11
22H345-1
28H047
AN 6-35, AN 310-6, AN 380-3-3, DRILL 3/16 DIA. 2 HOLES

NOTE: SERVICE CHANGE #15 ISSUED BY BUREAU OF AERONAUTICS ADDS THE FOLLOWING (REF.) PARTS TO ALL PBY-5 HAYES G-10-79 WHEELS: D-47-14 PLATE, A-68-38 GASKET AND B-32-75 & -76 HUBCAPS REPLACING B-32-1 & -2 HUBCAPS

PAINT LARGE WHITE LETTERS
PEEN OVER
L H
½ APPROX.
28H041

FORWARD
VIEW B-B
QUARTER SIZE
NOTE:- RELATION OF STRUT OFFSET TO CASTING; AS SHOWN

AN6-51 AN315-6R (M) PEEN OR PRICK PUNCH ENDS
28H5521
DRILL #44 (.086) HOLES (LOCATE FROM PLATE) AN535-2-4(4)
(R)
28H2039
DRILL #28 (.141) ON REAR SIDE
7/8, 7/8, 1 15/16
3½
(M)
℄ PIN
℄ STRUT
C
C
28H2013
AN6-51 AN315-8R (M) PEEN OR PRICK PUNCH ENDS
AN520-8-8 AN935-8 (M)
22H785
28H1049
10 15/16
3 1/32
28H1048 2-REQ'D
22H787 2-REQ'D
AN3-11 AN320-3 AN380-2-2
28H040
57 5/16 ±½ REF.
28H080

(W) 28H1050 WITH TOWING LUG TOWARD FRONT
28H1051 INSTALL AS SHOWN WITH AN960-616 AN380-3-4
80° APPROX.
28H1049 SHALL BE INSTALLED TO ALLOW LOCK PIN GRIP THE AMOUNT OF ROTATION SHOWN
VIEW C-C
SCALE 6"=1'0"

A-A

— LUBRICATION NOTE —
AT ASSEMBLY & SERVICE OVERHAUL, FILL ALL SPACES MARKED 'L' WITH LUBRICANT NO-IA-ID GRADE A-SP. DEARBORN CHEM. CO., 205 E 42 ST. N.Y. N.Y. OR EQUIVALENT CORROSION PREVENTION PRODUCT OF HEAVY GREASE CONSISTENCY. AFTER ASSEMBLY PRESS IN MORE LUBRICANT (5 PLACES) WITH GUN, FILLING ALL POCKETS TO PREVENT THE ACCUMULATION OF WATER.

FINISH NOTE :- 2P-1BL
PAINT LARGE WHITE LETTERS L.H. AS SHOWN
PAINT R.H. ON 28H3005-1
PAINT - CAD STEP - RED
PAINT - LUBRICATING FITTINGS - YELLOW
PIN ENDS FREE OF PAINT

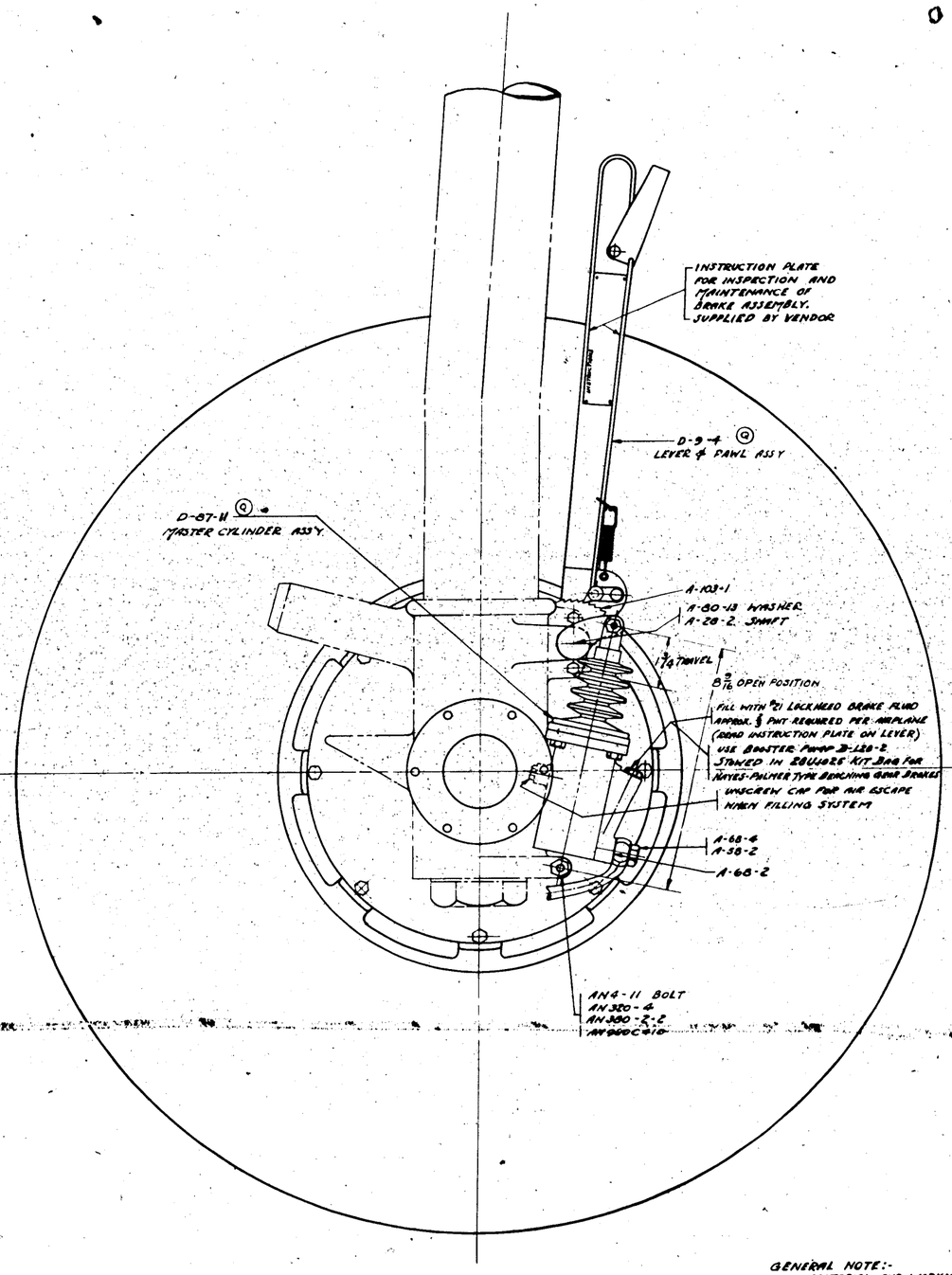
(L) TO BE USED FOR ALL FUTURE & SPARES

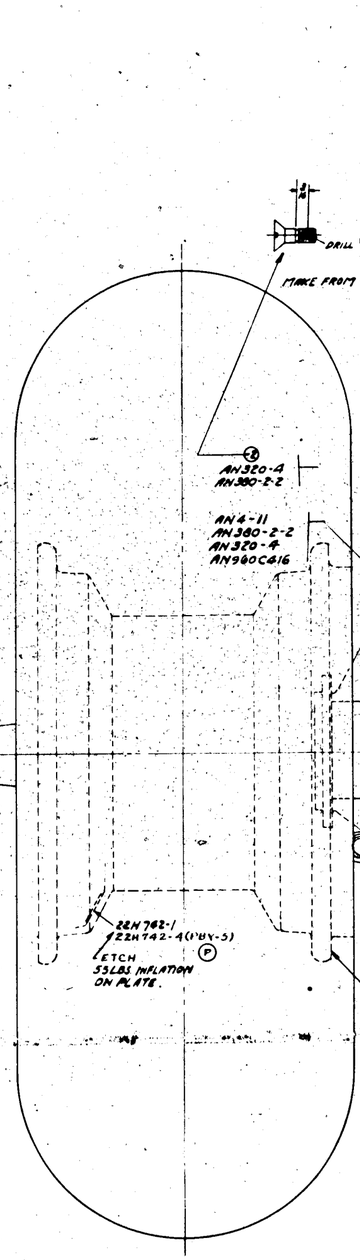
FINISH CODE	
Z	ANOC TREATMENT
P	-PRIMER
AP	AL - INIZED PRIMER
C	- CADMIUM PLATE

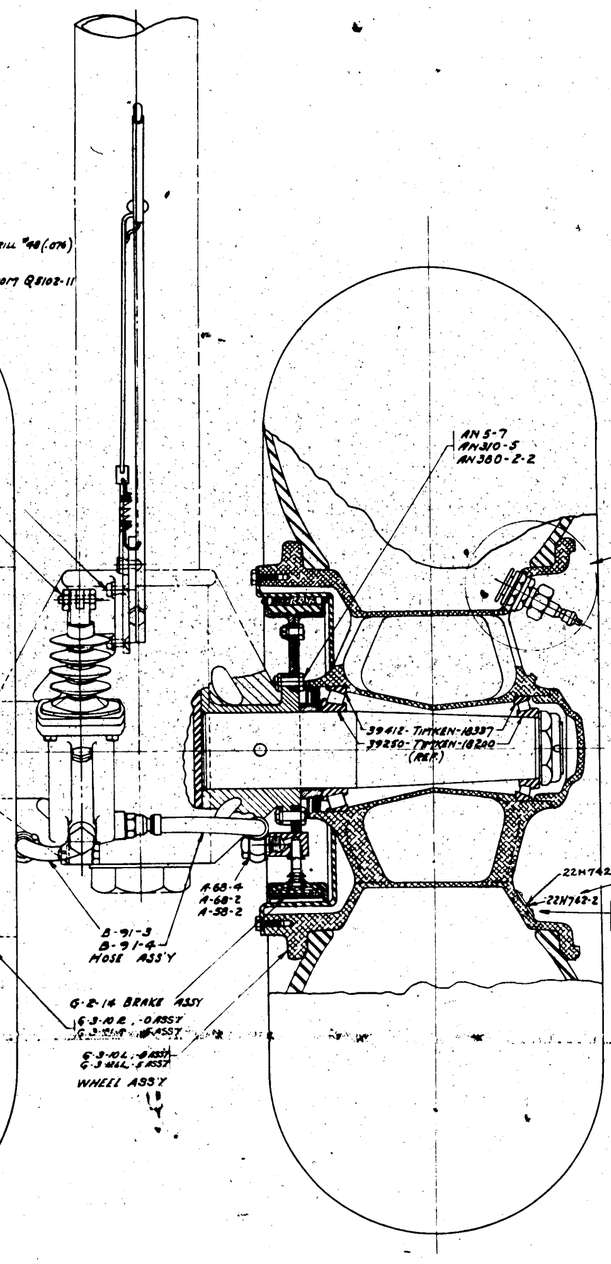
AN535-8-4	4	4			
		28H5521			
BLACK BOSTICK		22H787	4	4	4
		22H785	2	2	2
		22H792			
		22H345-1			
LUBRICANT AIRCRAFT-SP		28H005-7			
		28H005-8			
		28H2029			
		28H3005-5			
		28H2018			
		28H1047	2	2	2
AC 25272-B	1	28H1050			
AC 960-616	1	28H1049	2	2	2
AN 315-6R	1	28H2013	2	2	2
AN 520-8-8	4	28H049			
AN 960-416	4	28H047			
AN 380-2-2	2	28H048			
AN 960-10	2	28H040			
AN 315-8R	2	28H2039			
AN 960-10L	2	28H1048	2	2	2
AN 315-6R	2	28H2029-5			
AN 960-8	2	28H005-8	2	2	2
AN 285-11	2				
AN 6-35	2				
AN 6-31	2				
AN 6-34	2				
AN 6-33	2				
AN 6-11	2	28H3005-1	2	2	2

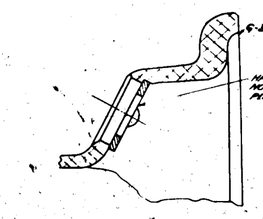
-6R	PBY-6R	28H1049	28H1050	1			
-5R	PBY-5R	28H1049	28H1050	1			
-5L	PBY-5L	28H1049	28H1050	1			
-5A	PBY-5A	28H1049	28H1050	1			
-5B	PBY-5B	28H1049	28H1050	1			
-5C	PBY-5C	28H1049	28H1050	1			
-5D	PBY-5D	28H1049	28H1050	1			
-5E	PBY-5E	28H1049	28H1050	1			
-5F	PBY-5F	28H1049	28H1050	1			
-5G	PBY-5G	28H1049	28H1050	1			
-7	PBY-5A	28H1049	28H1050	1			
	PBY-5B	28H1049	28H1050	1			
	PBY-5C	28H1049	28H1050	1			
-5C	PBY-5D	28H1049	28H1050	1			
-5L	PBY-5E	28H1049	28H1050	1			

LET	ALTERATION	DATE	BY
L	THREAD UP TO PLATE	7-8-36	
M	ADDED DETAILS A & B FOR -0		
	-0 & -5 ASSYS ADDED - E ASSY	1-5-40	
N	ADDED 6.50 MIN. TIRE ASSY	3-7-40	
	FOR -5 ASSY'S		
P	ETCH, 55 LBS. INFLATION PLATE" WAS "STAMP 50 LBS. INFLATE ON PLATE. ADD'D 22H742-3 & 22H742-4		
Q	(22-A) FOR PBY-5 NEG. WT. CHG D-9-4 REPLACES D-9-1, & D-87 -11 REPLACES D-87-1 NEG WT CHG	6-3-42	
R	ADDED NOTE 8 FOR SPARES ONLY" NO WT. CHG	6-17-43	
S	REMOVED NOTE "THESE PARTS - - - OR 22U102.5-4 NO WT. CHG.	5-11-43	



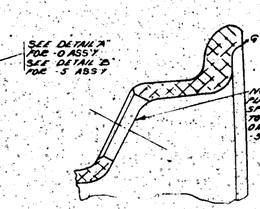






DETAIL A

SHOWING VALVE STEM HOLE DETAIL FOR -0 WHEEL & BRAKE ASS'Y. THIS ASSY IS FOR USE WITH TUBE HAVING METAL VALVE STEM WHICH REQUIRES PLATE AS SHOWN ABOVE



DETAIL B

SHOWING VALVE STEM HOLE DETAIL FOR -5 WHEEL & BRAKE ASSY. THIS ASSY IS FOR USE WITH TUBE HAVING RUBBER VALVE STEM (SCHRADER #7825-0)

GENERAL NOTE:-
MATERIAL AND WORKMANSHIP OF THESE ASSEMBLIES TO CONFORM WITH CORRESPONDING A.C. SPECIFICATIONS.

FINISH NOTE:
1.- CAD. PLATE OR CHROME-FLASH ON TIMKEN BEARINGS IN WHEELS
2.- CAD. OR CHROMIUM-PLATE ON ALL STEEL PARTS EXCEPT STAINLESS STEEL PARTS.
3.- ANODIZE AL. ALLOY PARTS
4.- PAINT EP-1BL (FOR WHEELS & BRAKE PARTS)

-5	28-5MA	28H3006	2
-5	20-5MC	28H3006	2
-5	20-5ME	28H3006	2
-5	28-5MR	28H3008	2

-5	PBY-5	ASSEMBLY	1
-5	PBY-5	WHEEL ASS'Y	1
-5	PBY-5	BRAKE ASS'Y	1
-5	PBY-5	WHEEL ASS'Y	1
-5	PBY-5	BRAKE ASS'Y	1
-5	PBY-5	HOSE ASS'Y	2
-5	PBY-5	HOSE ASS'Y	1
-5	PBY-5	28H3008-5	1

	AN4-11	2	
	AN960C616	2	
	AN320-4	2	
	AN380-2-2	2	
	AN960-D2	10	
	AN5-7	12	
	28H3014-2	2	

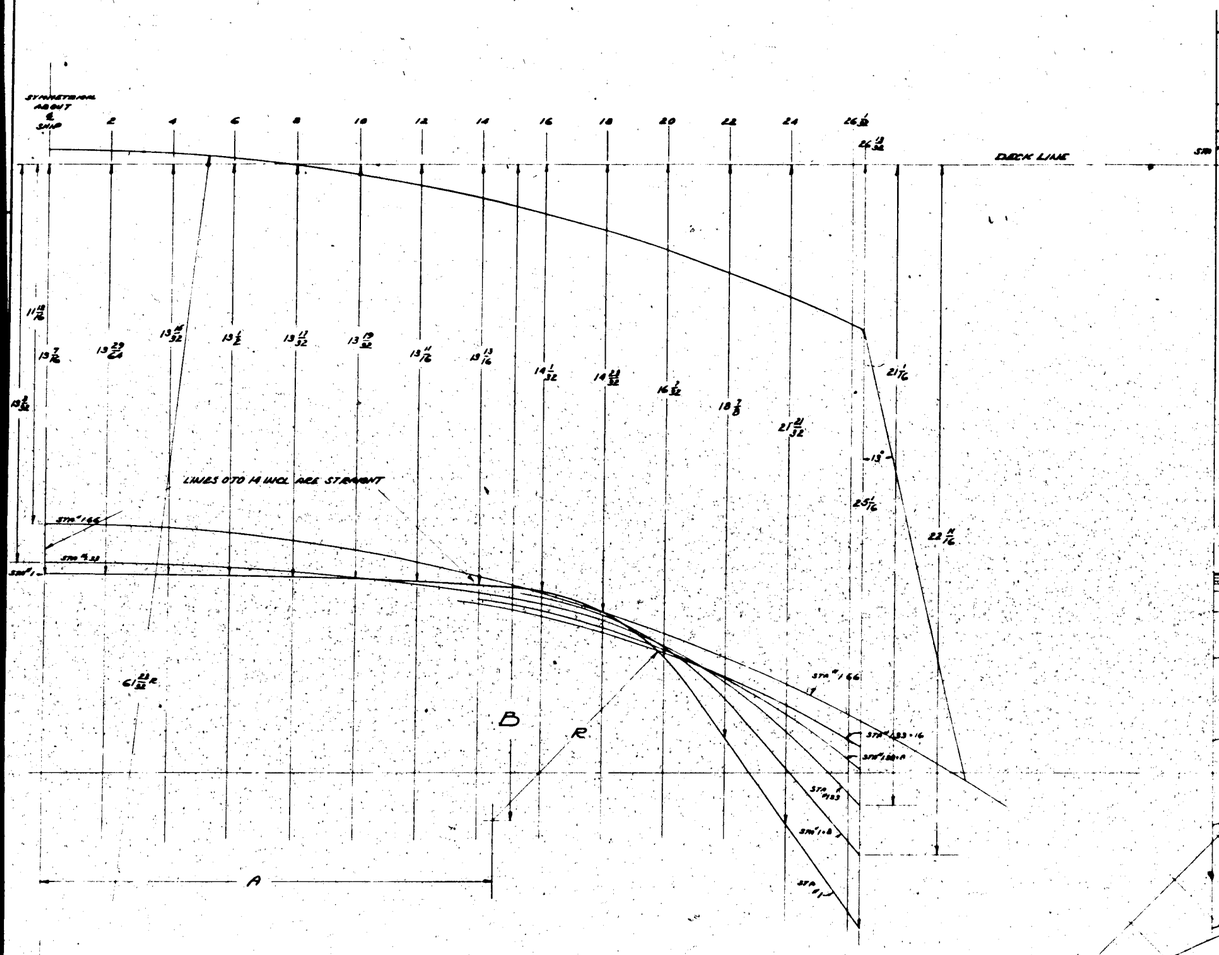
	22H742-4	2	2
	22H742-5	2	2
	22H742-2	1	1
	22H742-1	1	1

	A-68-2	3	3
	A-68-4	3	3
	G-3-10 (R.H.)	1	
	G-3-10 (L.H.)	1	
	G-2-14	2	2
	D-87-11	1	1
	D-9-4	1	1
	B-87-4	1	1
	B-91-3	1	1
	A-103-1	1	1
	A-80-13	1	1
	A-28-2	1	1
	A-29-2	1	1

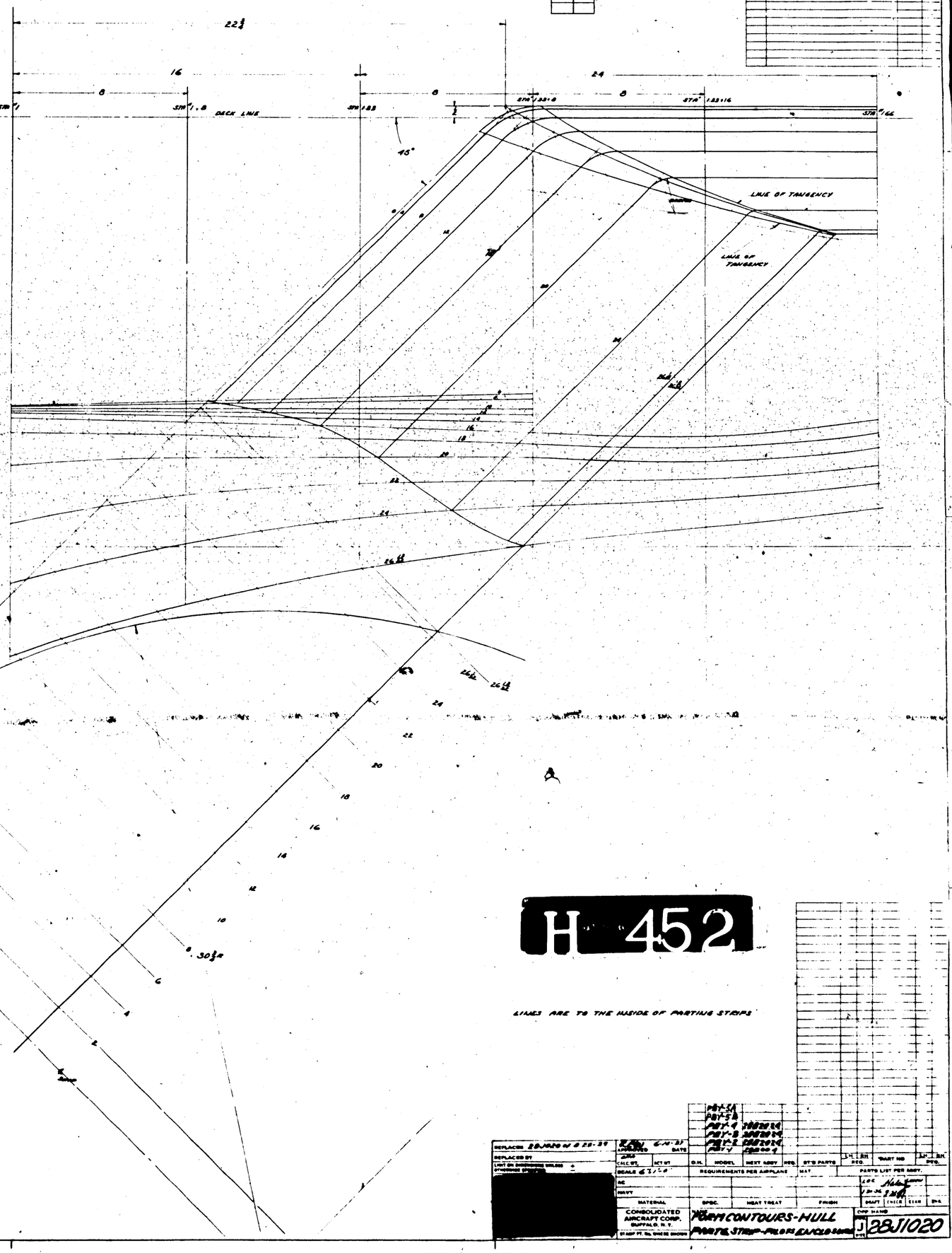
| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
A	TRACED	6/12/39	

STA	Offset
0	4
4	4 29/32
8	4 15/16
12	5 3/8
16	4 3/4
20	4 5/32
24	3 3/4
26 15/32	3 1/4



STA	A	B	R
"1	14 1/2	21 3/32	7 11/16
"1.8	13 13/16	25 3/32	11 3/32
"1.33	SEE DRG 11133		
"1.33-16	10 3/32	33 1/16	23 3/32
"1.66	8 1/32	49 1/2	35 3/8
"1.66	SEE DRG 11166		



H 452

LINES ARE TO THE INSIDE OF PARTING STRIPS

REPLACES 28J1020 ref 8-28-39											
REPLACED BY											
LIST ON DRAWINGS WELDED ATTACHED BY											
SCALE 6" = 1'-0											
MATERIAL	SPEC.	HEAT TREAT	FINISH								

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N. Y.

STAMP PT. No. WHERE SHOWN

TITLE: PLAN CONTOURS-HULL PARTING STRIP-FLOOR ENCLOSURE

CODE IDENT NO. 71030

SIZE J

DWG NO. 28J1020

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATIONS	DATE	BY
B	TRACED		PJJ
C	COVER STENCIL "PBY---COVERS" WAS "PBY-2 & PBY3---COVERS" NO WT. CHG.	9-24-42	AUCLIS
D	PER NOTICE AIRCRAFT PBY5A C1033 AND SECTION 14 AIRCRAFT PBY5 C1078,79 REVISED AIR EX-108-453 & PBY5M C1079 AIR EX-108-649 NO WT. CHG.	9-1-43	

50A90111

-10 SPEC.-COMM'L. 48 SAEH CORD. SERVED INTO EACH SHELL GROMMET (AN1130-851). DIP ENDS OF CORD IN RIVERLINE DOPE.

-2 TAIL PIECE

-3 CENTER PIECE

-7 RAMP PATCH.

-9 3X3 RAMP PATCH

FILE AND FINISH SLIT AND 1/8 DIA. (FINISHED) HOLE

AN1130-851

AN1130-85

AN1130-86

AC225-6

AC225-1

95748-K1-15

95748-K1-3

MFR ALLOWANCE

"PBY" ENGINE MOUNT COVERS

STENCIL MARKS IN 1" BLACK LETTERS ONE SIDE OF COVER

2" MIN OVERLAP

3 VIEW SKETCH OF FINISHED COVER NOT TO SCALE.

NOTE: 1. ALL PARTS -2 TO -9 INCL. WATERPROOF OF KHAKI DUCK SPEC -2409 COMM'L.
2. ALL STITCHING IN ACCORDANCE WITH SPEC. 9908
3. COVERS FOR USE WITH ENGINE STAND # T-1873.

-5 FLAT DIMS. - $10\frac{1}{2}$ x $22\frac{1}{2}$

HUB COVER

10

30½ DIA. FOR FL. PATT. (INCLUDES SEAM)

29⅝ R.

ROLLED SEAM - DOUBLE STITCHED

7 DIAM. (FINISHED) 1⅛ DIA. FLAT

-4 FRONT

H 453

| | | |

INCORPORATES

PBY-1	BUREAU CHANGE	#	101
PBY-2	-	#	66
PBY-3	-	#	38
PBY-4	-	#	9

LET	ALTERATION	
J	TRACED	
K	ADDED 2-EA ASSY PER COPCO	
L	AS ANTKD-DR WASHER ADDED	
M	ANTKD-DR WASHER & 2 ADDED	
N	PBY-3 REQUIREMENTS ADDED	
O	WAS AN23-7 & AN320-8	
P	WAS AN3-11	
Q		
R	ADDED & ARMS	
S	ADDED STRUT & BEARING ASSEMBLY	
	ALL BOLTS ASSEMBLED ALL BOLTS RETAINING	
	ALL NUTS SAFETY WIRED	
	ADDED 1570 ASSY PER SAN'A'	
T	ADDED REQUIREMENTS FOR	
	REVISED FROM 1578 ASSEMBLY	
U	AN3-5 BOLT WAS AN3-6	
V		
W	PER SHIPS NOTICE REPLACED	
	AN3-5 WITH AN3-5A REPLACED	
	AN 310-3 WITH AC 960-1032 ON	
	PGS OF DWG. IN LIEU OF AN 320-8-2(13)	
	WAS (12) AN 3-5 (6 REQ'D) WAS (10 REQ'D)	
	AS 210-5 (STEEL) WASHER ADDED	
	AN 3-5A(6) & AC 365-1032(4)	
X	ADDED NOTE TO PAGE	
Y	ADDED A-1 THK CHANGED TO	
	AN 960-6-5 IN LIEU OF AN 960-6-8	
Z	CHANGED -4 SUB ASSY TO -5	
	ADDED AN 364-3A TO PARTS LIST	
AA	REVISED FOR "B" VIEW	
	ADDED NOTE TO SHEET	
AB	ADDED DETAIL "B" TO PAGE	
	CHANGED -21 & -23 ASSY'S	
	TO ADD -7 DELETED -355 ASSY	
	ADDED L-ANGLES 28 F/W, 2 PER	
	SET - 2 PER HULL - ADDED	
AC	AS BEST'S AIRP BLOCK ADDED	
	-355 (48L28001) FOR PBY-3A	
	CHANGED 46A-8 BLK & CHI &	
	LIGHTED -350 TO C-88416	
	C-70496, C-71113 ON NAT CHG USED	

LIST		
23485		
E.O. 28555	U	
E.O. A5748 PBY-5 THRU 5B PBY-5A PBY-5B	V	
E.O. A1131 PBY-5, PBY-5A - 5B-5 ALL 5A-10	W	
E.O. A1317 PBY-5A 5A-10 5B-5 PBY-5A, PBY-5B, PBM-3A, PBM-3B, PBM-3C	X	
E.O. 26940	AA	
E.O. A2717	AB	

DETAIL "B"

ASSY. NOTE: (LOWER GEAR BOX & MOTOR TO STRUCT.) BEFORE DRILLING HOLES AT BULKHD. ATTACHMENT 'D' ATTACH MOTOR TO GEAR BOX AT 'A' & TIGHTEN CLAMP-BOLT. ATTACH REAR END OF MOTOR 'C' TO STRUCTURE AS INDICATED & GEAR BOX TO CROSS BEAM 28L088 ADJUST GEAR-BOX (¢ OF VERT. DRIVE) TO 6¾ DIM. FROM ¢ OF BULKHD. (CHECK ALIGNMENT OF TORQUE TUBE) DRILL HOLES & ATTACH GEAR-BOX AT 'D' COMPLETING INSTALLATION.

BULKHEAD #4 LOOKING AFT.

WITH TORQUE TUBE HELD AGAINST ANY TWO BEARINGS THE CLEARANCE BETWEEN THE THIRD BEARING AND TUBE WILL BE MAX. .012 MIN. .001

VIEW A-A

FINISH NOTE. TOUCH UP BARE SPOTS AS CONTRACT TOWN

CONTRACT #9187G

	PBY-5A	28L001	
	PBY-5	28L001	
	PBY-5A	28L001	
	PBM-3	28L001	
	PBM-3A	28L001	
	PBM-3B	28L001	
	PBM-3C	28L001	
	PBY-3	28L001	
	PBY-4	28L001	
	PBY-5	28L001	

MATERIAL	NOTED
FINISH	NONE
NEXT ASSY USED	
PROCUREMENT PER AIRPLANE	

CONTROL INSTAL. FLOAT - HULL. BULKHD

H 454

11 12 13 14 15 16 17

LET	ALTERATION	DATE	BY
A	TRACED FROM BREWSTER DRWG'S B-30008 & B-30009		
B	AN231-3-1 5/16 HINGE WAS AN231-3	(ADD WT CHG +.10#)	
C	REMOVED -3 (4), ADDED -5 (4), -6 (2) F8T CONNECTORS (4), -26 (2) -27 (2) ADDED AN816-12D (6) AN818-12D (4), AN819-12D (6) #1007-8 F8T-12D (4), -4 (2) -46 (2) (WT CHG +.29#)	7-10-42	
D	RELOCATED PARKER #1007-8 F8T-12D ADDED DIM. 2 1 2 3/4 DIM 12 7/16 WAS 11 5/8, REMOVED 3/16 DIA. HOLE ADDED 5/8 DIA. HOLE REMOVED DIM. 1 5/8. WT. CHG. NIL.	9-4-43	

BREWSTER E.O. 5178

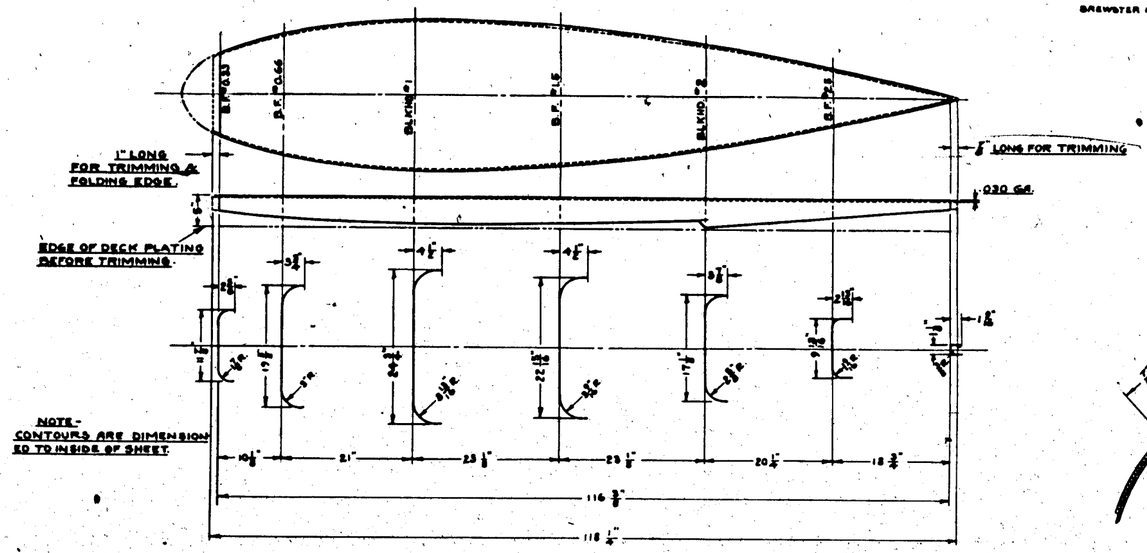
BREWSTER E.O. 610

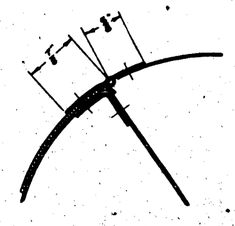
DETAIL ⑨ SEE SHT #1 (C-2)

FLOAT DECK PLATING

SCALE 1"=10"

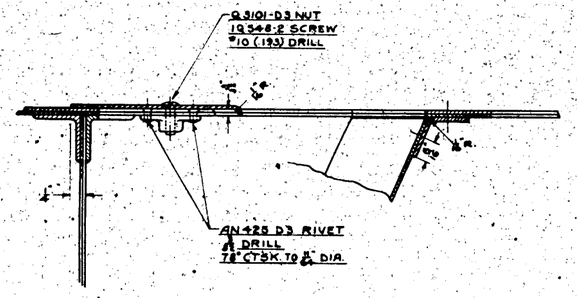
(THIS DETAIL TRACED FROM B-30008)





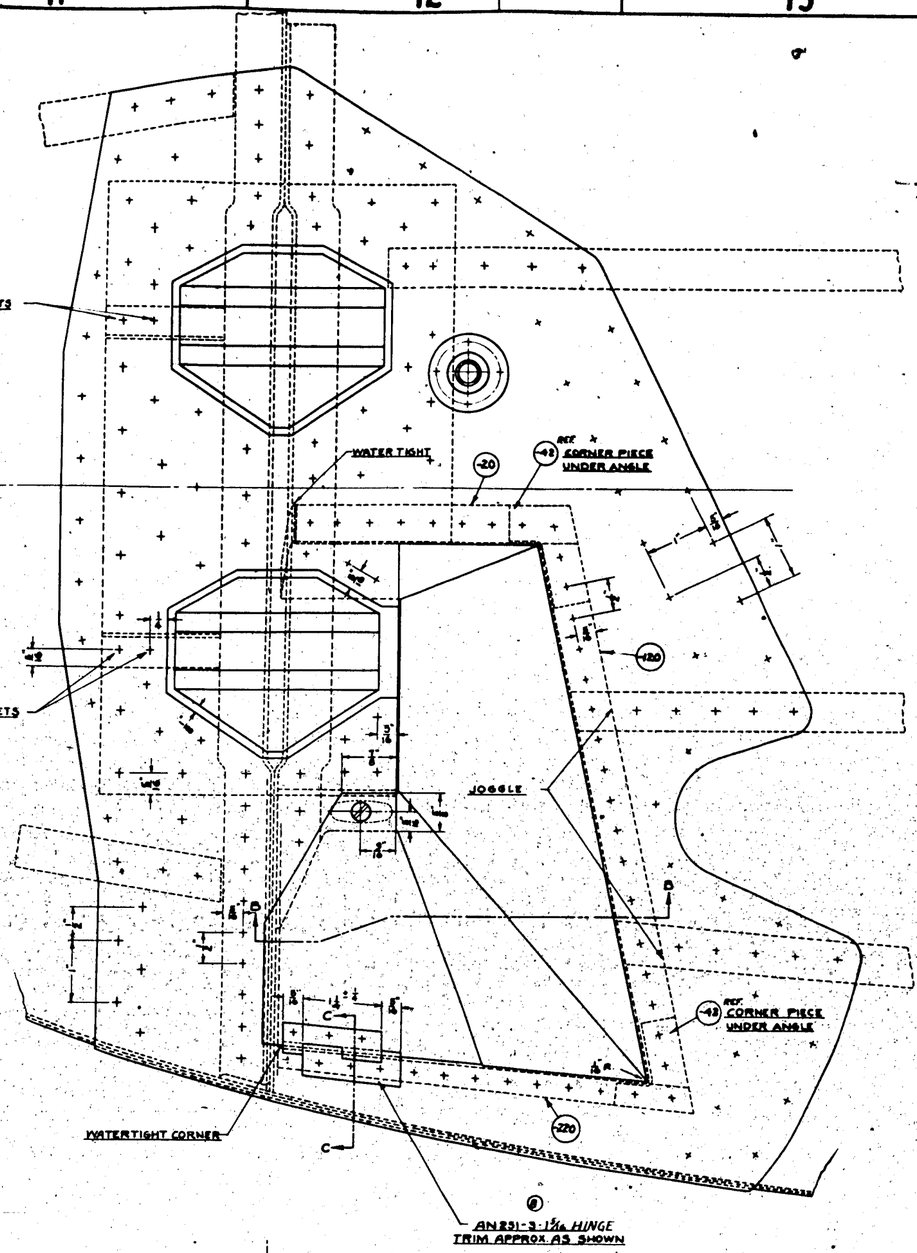
SECTION C-C

SCALE: 12"=1'-0"



SECTION B-B

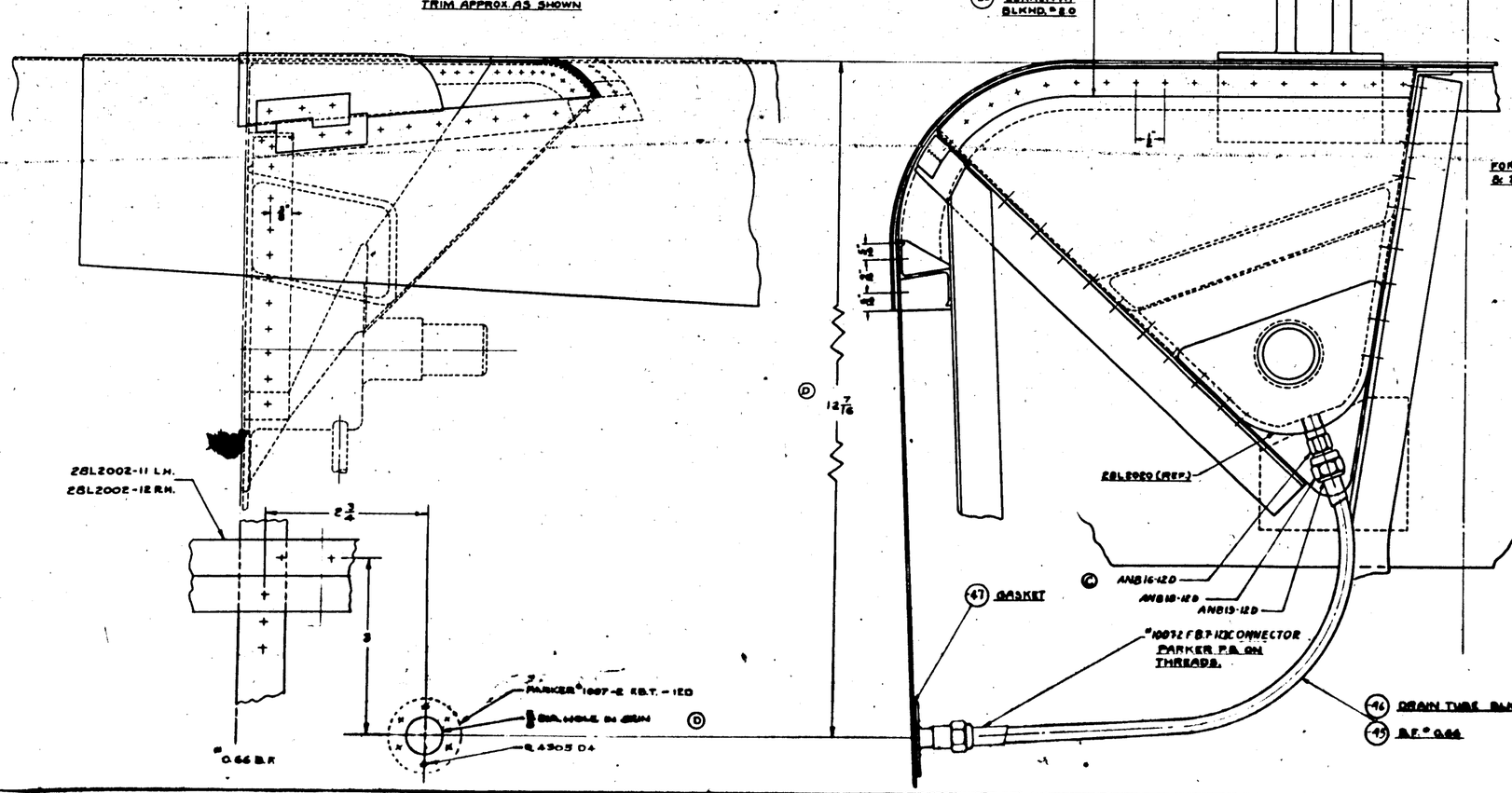
SCALE 12"=1'-0"



DETAIL "A"

SHOWING ATTACHMENT OF STRUT END POCKET AT B.P. #0.66 WITH FLOAT DECK PLATING - ATTACHMENT AT BLKHD #2.0, SIMILAR.

SCALE: 12"=1'-0"



H 455

THIS DRAWING TRACED FROM BREWSTER DRWG'S #30008 & #30009.

SHEET 2 OF 2

NOTE- UNLESS SPECIFIED, ALL RIVETS ARE Q 4303-D4, SPACED APPROX. AS SHOWN

SEE SHEET #1

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CAL.

FLOAT ASSEMBLY- PLATING

A | B | C | D | E | F | G

THESE PLACES TO BE WATERTIGHT

AN426 D-3 RIVETS SPACE BETWEEN OTHER RIVETS AT ASSEMBLY

FILLER BLOCK (-19) MADE FROM AL ALLOY EXTR. SEC. K-19085

AN442-DG RIVETS

28L2007-7L (S 30011-7L) PRODUCT ONLY

(-23) FILLER FIT AT ASSEMBLY TAPER AWAY IN WORK

28L2006-20

28L2007-9L & -7R (S 30011-9L & -7R) FRONT & REAR

AN442-D6 RIVETS 8 RIVETS AT FITTINGS

REF-POCKET WILL BE TRIMMED TO FLOAT CONTOUR ON PLATING ASSEMBLY 28L2001 (REF) (S 30008)

WATERTIGHT FAYING SURFACES PARTS

28L2009-1R (S 30011-1R) 28L2009-1L REAR ONLY

WATERTIGHT FAYING SURFACE ENTIRE LENGTH OF ANGLE

WATERTIGHT FAYING SURFACES

WATERTIGHT FAYING SURFACE 8° DOWN

28L2040 L (S 30041-L) 28L2040 R

28L2080 (S 30004)

AN442-D4 RIVETS

(-17) R (-17) L (REF)

THE SLOPE OF SIDE TO DECREASE GRADUALLY FROM 14° AT THIS POINT OF TANGENCY TO 0° AT DECK TANGENCY

WATERTIGHT FAYING SURFACE PORTION BETWEEN 28L2020 & SHELF

AN442-D4 RIVETS THRU SHELF

28L2006-19 (S 30015-19)

(-6) L (-6) R

3/4 x 3/4 x 1/16 DIE K-2401

(-24)

28 REQ (SEE DET. B)

(-9) L (-9) R

3/16 x 3/16 x 1/16 PLAIN ANGLE - DIE K-1961

(-1) R (-1) L

3/4 x 3/4 x 1/16 DIE K-2401

(-10) R (-10) L

3/16 x 1 x 3/32 PLAIN ANGLE DIE K-13639

(-11) R (-11) L

3/16 x 1 x 3/32 PLAIN ANGLE - DIE K-13639

(-2) R (-2) L

(-13) L (-13) R (SAME AS ON OPPOSITE SIDE)

.030 SHEET

CURVATURE OF SIDES TO BE OBTAINED FROM FULL SIZE LAYOUT

(-13) R (-13) L .030 SHEET

THE SLOPES SHOWN IN SECTIONS B-B & C-C ARE NOT SHOWN HERE

3/4 x 3/4 x 1/16 DIE K-2401

(-3)

AN442-DG RIVETS THRU GUSSET

(-5) R (-5) L 3/4 x 3/4 x 1/16 DIE K-2401

(-5) L (-5) R 3/4 x 3/4 x 1/16 DIE K-2401

.064 SHEET (-16) L (-16) R

(-16) R .064 SHEET (-16) L

45° SLOPE OF BOTTOM

AN442-DG RIVETS

(-21) R (-21) L

(-14) R (-14) L .064 SHEET

1/2 R. (GUSSET)

KEEL ANGLE 87½° REF.

SECTION B-B (C-5)

BULKHEAD DIMENSIONS ARE GIVEN TO INSIDE OF SKIN IN THIS PLANE.

SLOPE OF SIDES TO VARY GRADUALLY FROM 60° AT GUSSET TO 16° AT POINT OF TANGENCY

SECTION C-C (D-6)

VIEW LOOKING FORWARD

SECTION D-D (A-3)

NOTE: CUT OFF BOTH ENDS OF -25 AS SHOWN.

-25 (REF) -3 (REF) -14 (REF) -28

DETAIL B 6" = 1'-0"

NOTE: BEVEL OUTSTANDING LEGS OF ALL ANGLES AS SHOWN EXCEPT THE FOLLOWING: UPPER ENDS OF -8 -10 -11 BOTH ENDS OF -7 -8 LOWER ENDS OF -9 , -8

-9 (REF) -25 (REF) -24 (REF)

-28 -26

DETAIL A

3/16 RIVET 3/4 REF

-27 -25 -24 (REF) SEE DET. A -8 (REF) -3 (REF) -14 (REF)

NOTE: JOGGLE -25 TO FIT OVER 28L2006-19.

VIEW LOOKING AFT 1 1/2"=1'-0"

BREWSTER E.O. 196 BREWSTER E.O. 218

NOTE: LOCATE FROM JIG

28L2022 (-7) L (-7) R (-8) L (-8) R 28L2020 (S 30005-1) (22) .040 SHEET

WATERTIGHT SURFACES

28L2030 (S 30009 REF) (-17) R (-17) L .051 SHEET (-18) L (-18) R

28L2038-R (S 30008-R) 28L2038-L 28L2039 R (S 30007-R) 28L2039-L

28L2037-R (S 30008-R) 28L2037-L

28L2020

28L2021

WATERTIGHT SURFACES BETWEEN CASTING & POCKET

AN442-D5 RIVETS

28L2023-L 28L2023-R POCKET

BEVEL OUTSTANDING LEG AS SHOWN

(-23) (-24) (B)

SECTION E-E (B-2-3)

NOTE: WHERE RIVET SPACING IS NOT NOTED THEN SPACE APPROX. AS SHOWN OR SPACE EQUALLY BETWEEN GIVEN POINTS.

30°

SECTION A-A (B-2-3)

-23	CLIP	(AL AL SHT)	A-1852 x 3/4 LG.
-24	FILLER	(AL AL SHT)	.064 x 1" LG. x 4 1/2
-27	FILLER	(ALCLAD SHT)	.051 x 3/4 x 2 3/4
-28	CLIP	(AL AL EXT)	A-1852 x 3/4 x 8.
-25	ANGLE	" "	A-13639 x 1 x 3/32 x 8.
-26	STIFFENER	" "	A-2401 x 1 1/2 LG.

-22	FILLER	(AL AL SHT)	2401 x 1/8 x 2
-23	COVER SHT	" "	3/4 x 10 3/8 x 90
-21	KEEL CLIP	" "	1/16 x 3 1/4 x 3 1/4 LG.
-20			
-19	FILLER BLOCK	(AL EXT)	A-19085 x 2 1/4 LG.
-18	WEB	(AL AL SHT)	2.5 x 9 x .081
-17	WEB	" "	13.3 x 9 x .081
-16	GUSSET	" "	11 1/4 x 5 1/4 x .064
-15	GUSSET	" "	11 1/2 x 3 1/4 x .064
-13	SKIN FRAME	" "	96 1/2 x 21 1/2 x .030
-11	ANGLE	(AL AL EXTR)	K-13639 x 50 1/2 LG.
-10	ANGLE	" "	K-13639 x 30 1/2 LG.
-9	STIFFNER	" "	K-2401 x 78 3/8 LG.
-8	FRAME ANG.	" "	K-2401 x 33 1/2 LG.
-7	FRAME ANGLE	" "	K-2401 x 16 1/2 LG.
-6	ANGLE	" "	K-2401 x 8 LG.
-5	FRAME ANGLE	" "	K-2401 x 18 1/2 LG.
-3	FRAME ANGLE	" "	K-2401 x 18 LG.
-2	FRAME ANGLE	" "	K-2401 x 14 LG.
-1	FRAME ANGLE	" "	K-2401 x 14 LG.

-22	28L2022	
-23	28L2023	
-24	28L2024	
-25	28L2025	
-26	28L2026	
-27	28L2027	
-28	28L2028	
B-30041 R	28L2040 R	
B-30041 L	28L2040	
B-30037 R	28L2039-R	
B-30037 L	28L2039	
B-30036 R	28L2038-R	
B-30036 L	28L2038	
B-30035 R	28L2037-R	
B-30035 L	28L2037	
B-30045	28L2020	8
B-30044	28L2028	4
B-3007-7R	28L2007-7R	
B-3007-7L	28L2007-7L	
B-3007-8R	28L2008-8R	
B-3007-8L	28L2007-8L	
B-3007-9R	28L2007-9R	
B-3007-9L	28L2007-9L	
B-3007-11L	28L2007-11L	
B-30013-20	28L2006-20	
B-30012-19	28L2006-19	

THIS DWG. TRACED FROM BREWSTER DWG. NO B-3006.

-R	PDV-3	28L2040 R	AN442-D6	
-L	PDV-3	28L2040 L	AN442-D6	
R	PDV-3	28L2039 R	AN442-D6	
L	PDV-3	28L2039 L	AN442-D6	
R	PDV-3	28L2038 R	AN442-D6	
L	PDV-3	28L2038 L	AN442-D6	

REQUIREMENTS PER AIRPLANE				MAT	PARTS LIST PER ASSY.	
NAVY MATERIAL	NOTED SPEC.	NOTED HEAT TREAT				
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.	NAME	BELT FRAME - FLOAT -				28L20

H 456

LET	ALTERATION	DATE	BY
A	ADDED NOTE "-44" TUBES ONLY	4-10-42	[illegible]
B	ADDED NOTE "-44" TUBES ONLY	8-2-42	[illegible]
C	ADDED NOTE "-44" TUBES ONLY	8-28-42	[illegible]
D	ADDED NOTE "-44" TUBES ONLY	9-18-42	[illegible]
E	ADDED NOTE "-44" TUBES ONLY	11-4-42	[illegible]
F	ADDED NOTE "-44" TUBES ONLY	2-4-43	[illegible]

E.O. 28736
E.O. 51126
E.O. A18868
E.O. A18890
E.O. A18894
E.O. A18900

DRILL 1/4 DIA. 2 HOLES

28L5038 BUSHING. PRESS IN WITH WET PRIMER.
C'SINK FTGS. 82½° AT CORNERS OF HOLES WHERE SHOULDER BUSHINGS ARE PRESSED IN.

LINE BORE & REAM 1.750 +.002 -.000 THROUGH 2 HOLES

28L5012

AN535-6-4

AN535-6-4

MAX. REDUCTION OF ⅛ ALLOWABLE ON EDGE DISTANCE FROM NOMINAL FIGURE

45½

39.750 ±.005

AN535-6-4

28L5013

AC256-3 LUBRICATOR (PLUG TAPPED HOLE DURING H.T.)

THIS REGION TO BE SMOOTH & FREE OF WELD MATERIAL.

LINE BORE & REAM 1.375 +.002 -.000 THESE HOLES MUST PARALLEL HOLES IN CENTER FITTING 28L5012. C'SINK FTGS. ⅛ x 45° AT CORNERS OF HOLES WHERE SHOULDER BUSHINGS ARE PRESSED IN.

28L5014-6

28L6037-8 BUSHINGS PRESS IN WITH WET PRIMER.

28L6037-7 BUSHINGS PRESS IN WITH WET PRIMER. DRILL THRU BUSHINGS FOR OIL HOLE AFTER INSTALLATION

37.796 ±.005

FOR ALL 4 SIDES OF 2 LUGS

¼ NOM ¼ MIN.

12⅝

39.950

NOTE:
HEAT TREAT 175,000 #/in²
ON HEAVY SECTIONS OF THE FITTINGS ONLY, HEAT TREAT MAY BE REDUCED FROM 175,000 #/in² TO 150,000 #/in²

BREAK ALL SHARP CORNERS ON FTGS.

PLUG ALL TAPPED HOLES BEFORE HEAT TREAT

FINAL FINISH MACHINING AFTER H.T.

FINISH: OUTSIDE: C-P
INSIDE: DRILL & PLUG CLOSED TUBES FOR PARALKETONE OR EQUIVALENT.

-6 & -7 TUBES MAY BE GROUND DOWN TO 2.12 ±.01 O.DIA. TO PERMIT OVERSIZE TUBING TO GO INTO FITTINGS FOR A LENGTH OF APPROX. 5" BACK FROM ENDS OF TUBES.

EXTREME CARE SHOULD BE EXERCISED IN THE WELDING OPERATION ON FORGINGS OF HIGH CARBON CONTENT IN ORDER TO ELIMINATE CRACKING.

FINISH CODE	
Z	ARCTIC TREATMENT
P	R.37 PRIMER
AP	ALUMINIZED PRIMER
C	CHROMIUM PLATE

PART No.	STOCK	MATERIAL	SPEC	LET	QTY REQ	LET	QTY REQ	LET	QTY REQ	LET	QTY REQ	LET	QTY REQ
28L5012-7	1.5 x .09 x 37	6Al-4V Ti	44 FM		-0		-2		-3		-4		-5
28L5012-8	1.5 x 1.46 x 44	6Al-4V Ti	44 FM										

DRAWN	A.C.
INVT	NOTED
HEAT TREAT	
FINISH	
NAME	ASSEMBLY - M.L.G. LOWER VEE STRUT
CONSOLIDATED AIRCRAFT CORP.	SAN DIEGO, CALIF.
SIZE	J
DWG NO.	28L5015
REV	R

H 457

LET	ALTERATION	DATE	BY	NO.	AUTHORITY	CHKD	BY
				N	PHOTO-TRACED		

AC 286-2 LUBRICATORS (3 PLACES)

3/8 MIN.
1/2 NOM (REF)

5.750 ± .005

3.425 ± .005

43.820 ± .005

3.425 +.000 −.005

1.812 +.000 −.002

28L5029-3 BUSHINGS PRESS IN WITH WET PRIMER

LINE REAM 1.500 +.0005 −.001

28L5021

AN535-6-4

AN535-6-4

28L5020

DRILL THRU BUSHINGS FOR OIL HOLES AFTER INSTALLATION

SOLDERED WELDED TO ROLLED AT ALL JOINING SURFACES

1.5000 +.0005 −.001 REAM

28L5029-4 BUSHINGS PRESS IN WITH WET PRIMER

1.500 +.0005 −.001

⑥

⑦

14 7/8

AN535-6-4

AC286-2 LUBRICATOR

28L5018

LINE BORE & REAM 1.375 +.0005 −.001

LINE BORE & REAM 1.062 +.0005 −.001
THESE HOLES MUST BE PARALLEL HOLES IN CENTER FITTING 28L5021

3/4

3/8

1/2

3/32 NOM (REF)

28L5040-7 BUSHINGS PRESS IN WITH WET PRIMER

DRILL THRU BUSHINGS FOR OIL HOLE AFTER INSTALLATION

1/2

1.240 +.000 −.002

38.080 ±.005

39.981

2.971 (REF)

1/2

C'SK 1/2 DIA 110°

5.826 +.006 −.001 REAM

28L5080

5 1/2

28L5131
28L5133 - TO BE USED ON 28SAMN ONLY

DRILL #44 (.086) - 4 PLACES TO MATCH 28L5131 (REF) ATTACH WITH AN535-2-4

13 3/8

AN535-6-4

28L5014-7

1 1/8 FOR ALL 4 SIDES OF BOTH LUGS

28L5037-8 BUSHINGS PRESS IN WITH WET PRIMER

7/16 MIN.

7/16 MIN.

12 1/32

3/4

3/4

1.8750 ±.005

NOTES:

1. BREAK ALL SHARP CORNERS ON FITTINGS.
2. HEAT TREAT: 175,000 #/in². ON HEAVY SECTIONS OF FITTINGS ONLY, HEAT TREAT MAY BE REDUCED FROM 175,000 #/in² TO 150,000 #/in² MIN.
3. CBORE FTGS. 1/4 x 45° AT CORNERS OF HOLES WHERE SHOULDER BUSHINGS ARE PRESSED IN.
4. PLUG ALL TAPPED HOLES BEFORE HEAT TREAT.
   FINAL FINISH MACHINING AFTER HEAT TREAT
5. FINISH: OUTSIDE - C-P
   INSIDE - DRILL & PLUG CLOSED TUBING FOR PARAMETERS OR EQUIVALENT
6. -5 & -7 TUBES MAY BE GROUND DOWN TO 2.1 +.000 −.010 O.D. TO PERMIT OVERSIZE TUBING TO BE INTO FITTINGS FOR A LENGTH OF APPROX 5" BACK FROM ENDS OF TUBES.
7. EXTREME CARE SHOULD BE EXERCISED IN THE WELDING OPERATION ON FORGINGS OF HIGH-CARBON CONTENT IN ORDER TO ELIMINATE CRACKING.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PL.

AN535-2-4						2	2
AN535-6-4						2	2
AC286-2						2	2
28L5133	TO BE USED INSTEAD OF 28L5131 FOR 28-5AMN					1	1
28L5131						1	1
28L5080						1	1
28L5040-7						2	2
28L5029-7						2	2
28L5029-6						2	2
28L5037-8						2	2
28L5021						1	1
28L5020						1	1
28L5018						1	1
28L5014-7						1	1

-5 & -7	PER SAMN	28L5000-9	80										
-5 & -7	DASH-10	28L5000-8	60										
-5 & -7	PER SAMC	28L5000-8	60										
-5 & -7	DEVICE	28L5001	60										

PART NO.	STOCK	MATERIAL	SPEC	LAST MIN.	LAST MAX.	LAST MIN.	LAST MAX.	LAST MIN.	LAST MAX.
				PARTS LIST PER ASSY.		-0	-0	-0	-0

A.O.							
HEAT TREAT	NOTED	NOTED					

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

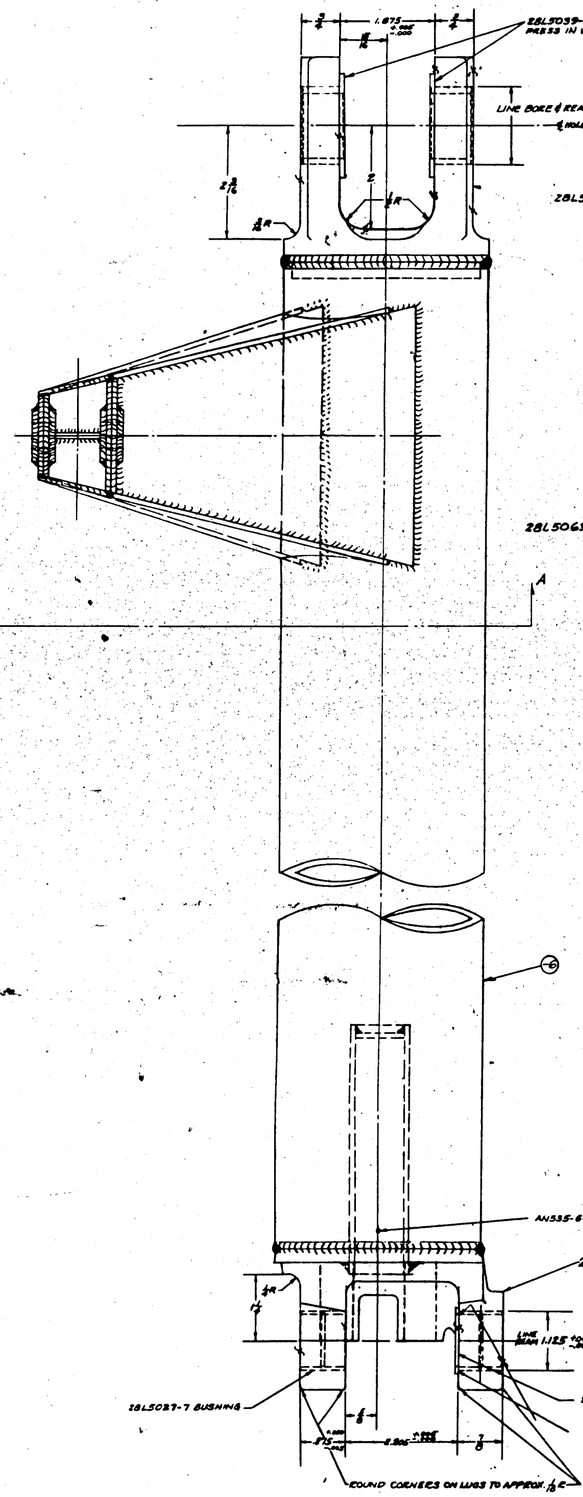
ASSEMBLY - M.L.G. UPPER VEE STRUT

SIZE J | DWG NO. 28L5023 | REV R

28L5030-7-R

H 458

MATERIALS R.B. 5/25/42



LET	ALTERATION	DATE	BY
A	E.O. 51175		
B	E.O. 51488 PER-ETA CHG 1488-5 AMD 6		
C	E.O. 4881 - PERFT, CR, HLSB 3-3078-1200 DIA 1/2 NF-3 CLASS 2A		
D	E.O. 41788, PERFT-EA, 2A-40 2B GAMC		
E	E.O. AI5040 E.O. 6192 E.O. 20882		
F	E.O. 81-1448		
G	E.O. 81-0872		
H	E.O. 81-1488 E.O. 81-1488 E.O. 81-1488		
J	E.O. 81-2026		
K	E.O. 81-2026		

PART NO.	STOCK	MATERIAL	SPEC.	-10	-9	-8	-7	-6
AN535-6-6								
Q600B16-8								
28L5063								
28L5039-6								
28L5033								
28L5027-8								
28L5027-7								
28L5032								

PARTS LIST FOR ASSY.

FINISH	NOTED				
HEAT TREAT	NOTED				

NAME ASSEMBLY - M.L.G. - MAIN STRUT-UPPER HALF

CONSOLIDATED AIRCRAFT CORP.

DWG NO. 28L5026 | SIZE J | REV. | SHT. | OF SHTS.

H 459

LET	ALTERATION	DATE	BY
A	Shift AN 23-15 bolt (Item 28) to R.H. side from left	2-8-44	
	Re sht.		
A	Remove Milsteel-6		
B	Change AN-960-416 washer (Item 29) to AN-960-416L washer	2-3-44	Pond
C	Change AN-960-10 washer (Item 30) to AN-960-10L washer	4-10-44	Coulson
D	At Ref. Add Item 31 AC-995-532-6 Lockwire Item 32 Body of Front Bushing	7-26-44	Coulson
	Re Ref. Add	7-26-44	Coulson
E	Add Item 33 Preformed Packing AC-2-228	10-2-44	Coulson
F	Removed Note "It is Preferable to File Lugs Before Drilling"	10-25-44	Coulson
Ref.	Reference to File Lugs Before Drilling		
28L-5	Changed Note to Read "Ream Bushing to Exceed Diameter No. 7 Drill Reamed Size"	10-25-44	Coulson

E.O.E.9696

E.O.240

E.O.848-A, PO#SA, OA10, 28-SAMC.

6 OK Hall

F

5-8-45 Coulson

6-6-45 Coulson

5-8-45 Coulson

AC835-8100 BRONZE PLUG ©

AN 24-23 BOLT
AN 320-4 NUT
AN 380-2-2 COTTER
AN 960-416 WASHER

Q840-32-49 SPACER

¼ HOLE THRU SPACER

28LB019 PIN

AC286-1 LUBEICATOR

28L5021, ASS'Y. LOWER HALF

28L5026 ASS'Y. UPPER HALF

28L5066 NUT
EYE BOLT
AN23-15 CLEVIS BOLT
AN 380-2-2
AN 380-2-2 COTTER
AN 960-10 WASHER
AC 995-532-6 LOCKWIRE

28L5085 STOP
AN 371-428 STOP NUT
28L5064 SPRING

28L5043 LATCH
AN 24-28 BOLT
AN 320-8 NUT
AN 380-2-2 COTTER
AN 960-416 WASHER

MS39 ALEMITE FTG. (2 PLACES)

28L50 1 PIN
28L5042 LATCHPLATE
AN 75-10 BOLT (2 PLACES)
AC995331-6 LOCKWIRE

NOTE - COAT SPRING & INSIDE OF RETAINER TUBE WITH PROTECTIVE.

28L5026-1 (REAR)

ITEM	PART NO.	NOMEN.	MATERIAL	SPEC.	QTY. PER ASSY.	QTY. REQ'D.	QTY. REQ'D.	QTY. REQ'D.	QTY. REQ'D.
		PARTS LIST FOR ASSY.			-0	-2	-3	-4	-5
1	28L5027	Strut M.L.G. Main	4130	AN-QQ-S-685	1	1	1	1	1
2	28L5028	Strut M.L.G. Main	4130	AN-QQ-S-685	1	1	1	1	1
3	28L5029	Plate Latch	4130	AN-QQ-S-685	1	1	1	1	1
4	28L5030	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
5	28L5031	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
6	28L5032	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
7	28L5033	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
8	28L5034	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
9	28L5035	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
10	28L5036	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
11	28L5037	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
12	28L5038	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
13	28L5039	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
14	28L5040	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
15	28L5041	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
16	28L5042	Plate Latch	4130	AN-QQ-S-685	1	1	1	1	1
17	28L5043	Latch	4130	AN-QQ-S-685	1	1	1	1	1
18	28L5044	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
19	28L5045	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
20	28L5046	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
21	28L5047	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
22	28L5048	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
23	28L5049	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
24	28L5050	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
25	28L5051	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
26	28L5052	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
27	28L5053	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
28	28L5054	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
29	28L5055	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
30	28L5056	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
31	28L5057	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
32	28L5058	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
33	28L5059	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
34	28L5060	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
35	28L5061	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
36	28L5062	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
37	28L5063	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
38	28L5064	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
39	28L5065	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
40	28L5066	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
41	28L5067	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
42	28L5068	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
43	28L5069	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
44	28L5070	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
45	28L5071	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
46	28L5072	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
47	28L5073	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
48	28L5074	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
49	28L5075	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
50	28L5076	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
51	28L5077	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
52	28L5078	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
53	28L5079	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
54	28L5080	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
55	28L5081	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
56	28L5082	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
57	28L5083	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
58	28L5084	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
59	28L5085	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
60	28L5086	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
61	28L5087	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
62	28L5088	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
63	28L5089	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
64	28L5090	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
65	28L5091	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
66	28L5092	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
67	28L5093	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
68	28L5094	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
69	28L5095	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
70	28L5096	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
71	28L5097	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
72	28L5098	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
73	28L5099	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
74	28L5100	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
75	28L5101	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
76	28L5102	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
77	28L5103	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
78	28L5104	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
79	28L5105	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
80	28L5106	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
81	28L5107	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
82	28L5108	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
83	28L5109	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
84	28L5110	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
85	28L5111	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
86	28L5112	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
87	28L5113	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
88	28L5114	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
89	28L5115	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
90	28L5116	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
91	28L5117	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
92	28L5118	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
93	28L5119	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
94	28L5120	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
95	28L5121	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
96	28L5122	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
97	28L5123	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
98	28L5124	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
99	28L5125	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1
100	28L5126	Plate Lock	4130	AN-QQ-S-685	1	1	1	1	1

Shift AN 23-15 (Item 28) from L.H. to R.H. side (Item 1)

FINISH	MACH		
HEAT TREAT	FINISH	DRAWN	4-5-44
NAME	ASSEMBLY M.L.G. - MAIN STRUT		
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.		SIZE J	28L5028

H 460

INCORPORATES
PBY-5 BUREAU CHANGE NO. 28
PBY-5A BUREAU CHANGE NO. 8.

LET	ALTERATION	DATE	BY
G	TRACED		
H	ADDED 28-0-3028, AN515D6A4		
	AN340 D6, 1 Q7102-8		
J	ADDED -2 & -3		
	ADDED 22B0398-2 & Q3906-		
K	DEL. QPL # NOTES -2 & QPL# SHOWN USED ON ALL SHIPS ALL MODELS. ADDED -3 REVISED 22B0398-2 TO -3 USED ON ALL MODELS		
L	ADDED FINISH "E" YELLOW ENAMEL TO -3 SUB ASSY		
M	ADDED -706 PLATE, REMOVE NOTE		
N	ADDED 28-0-6806 TO BLANKS 28-0-2027		
P	ADDED 28-0-5048(1), AC365D632 B), Q7102-AL416 B), Q600D-4-76), AN960-AA8), (AN515D6-248). NEG. WT. CHG.		
Q	REMOVED PACK/ONG. & PH. AN515D6-24, AN960-AA10), Q600D-4-7(13), Q7102-AL416 (2) DIM "E" & NOTE: DRILL "#8 (.199) THRU 28-0-2023, ETC." ADDED: AN960 AL4, Q600D-4-46, AN515D6-20 28-0-5049 VICE 28-0-5048 WT. CHG. NEG.		
R	REMOVED Q815 SPRING (4) (QTY) AN4-(-0441) FROM SECT. A-A. REMOVED NOTE "-3 SUB ASSY" INCLUDES 28-0-2018-2 (QTY) CLIP (REF), 28-0-2023 (REF) ANGLE, 28-0-5039 (REF), FINISH: "E" YELLOW ENAMEL" DETAIL OF "-3" SUB ASSY FROM BILL ADDED 28-0-5048 & 28-0-5049 (AS) TO -2 & -2A ASSY'S. WT. CHG. NEG.		
S	ADDED NOTE "S" TO -5049 28-0-5048 FROM -3 SUB ASSY ADDED "E" FINISH TO -5049 DEL -2 & -2A ASSY'S, ADDED 28-0-5049 TO PBY-5 & 5A ASSY'S NOTE FOR PBY-5A C-NO. LIMITED 28-0-5049 TO MCR 306 C-70496, 771/3 & 8R976 ONLY		
T	ADDED 28-0-5528 & 28-0-2019-6		
U	Q600D4-28 WAS Q600D-4-26 WT. CHG. NEG.		

ZONE B-6

E.O. B22363

E.O. B 24591

E.O. 17747 M

E.O. 17868 N

E.O. AA29883A P

E.O. 17000

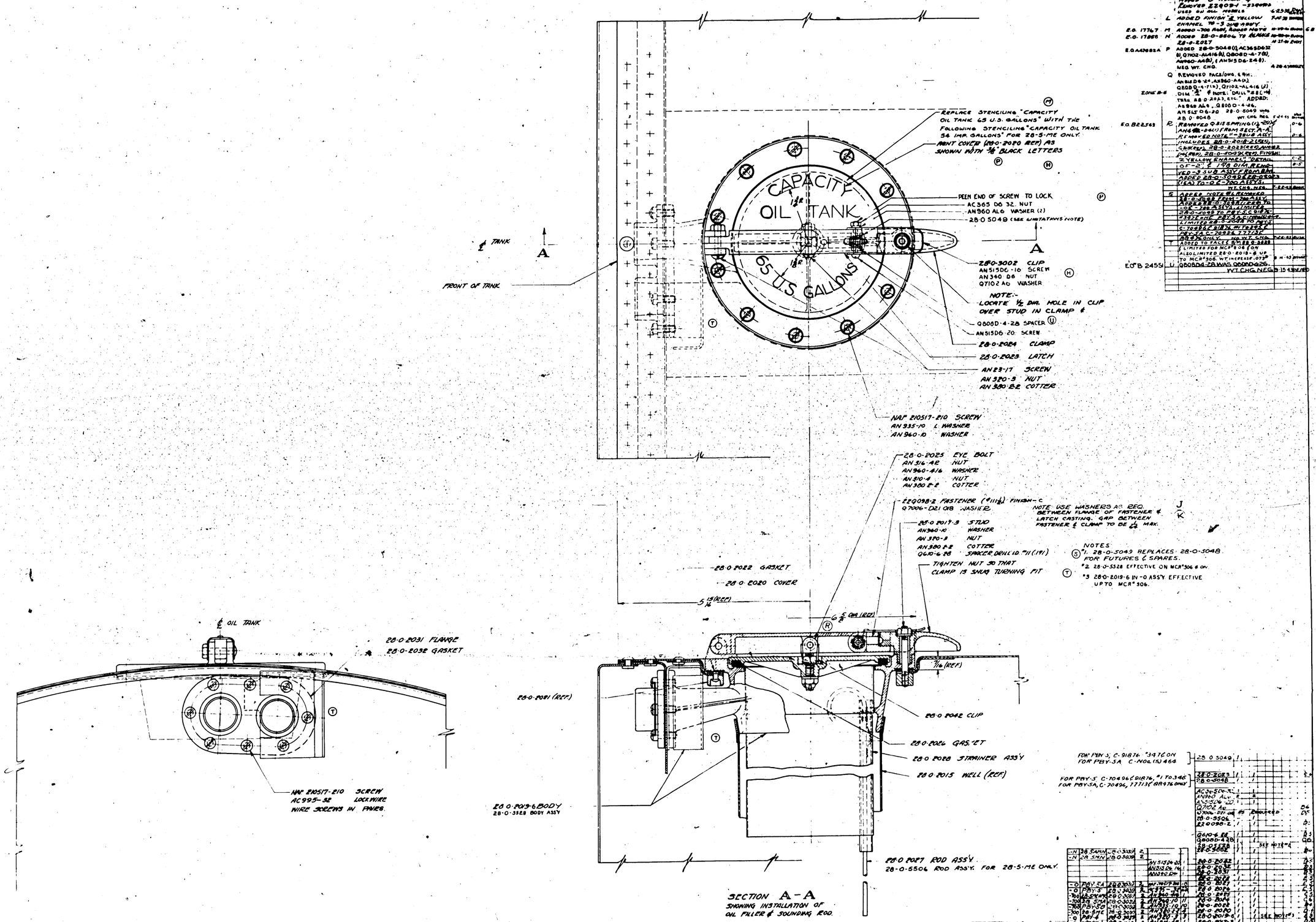
PBY-5, 5A ALL

E.O. 20101

E.O. 3041

E.O. 17705

E.O. 17965



FOR PBY-5, C-91876, "3976 ON
FOR PBY-5A C-NOS. (5) 464

FOR PBY-5, C-70496, 91876, "1 TO 346
FOR PBY-5A, C-70496, 771/3, 8R976 ONLY

-N	28 SAPM	28-0-3128	2			
-N	28 SMN	28-0-3039	2			
-0	PBY-5A	28-0-3128	2	AN 515D6-20	1	
-0	PBY-5	28-0-3039	2	AN 515D6-16	1	
-700	28 SMN	28-0-3039	2	AN960 D6	1	
-700	28 SMA	28-0-3039	2	AN960 10	1	
-700	PBY-5A	28-0-3039	2	AN960 10	1	
-700	28-5ME	28-0-3039	2	AN960 10	1	
0	PBY-5

INCORPORATES
BUREAU CHANGE NO. 16

LET	ALTERATION	DATE	BY
C	TRACED UP TO DATE	6-8-38	
D	ADDED -10 NAF 213731-40 Ⓓ, NAF 213730-40 Ⓓ, NAF 213730-40 Ⓓ, REFERS TO Ⓓ PARKER "P-8-8 MRO TEE Ⓓ. REMOVED NAF 213707-6D Ⓓ	7-1-38	
E	CHANGED NAF 213731-40 TO NAF 213695-40	4-28-39	
F	ADDED NOTES	4-28-39	
G	CHANGE: AN3-D16 to AN 3-16, AN 310-P5 to AN 310-5	4-28-39	
H	ADD 2-Q7014-13-.063	4-28-39	
I	ADDED PBY-5 REQ	11/5/41	

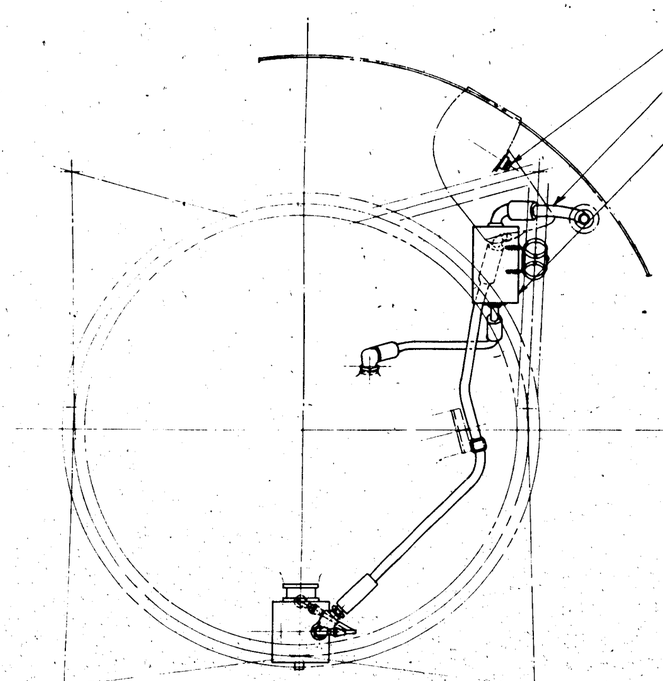
c.o. 7664
c.o. 7691
c.o. 7816
c.o. 7775A

NAF 213768-3 PLUG
FINISH:- CAD. PLATE

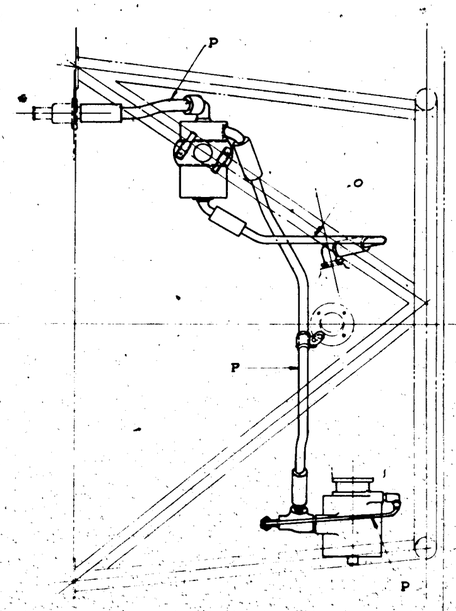
⑦ 3/4 OD X .049 AL. ALLOY TUBE
NAF 213142-12-11 HOSE
NAF 27842-11 CLAMP

28-0-3007-2	SEPARATOR ASS'Y.	
Q901-20	CLAMP.	
AN3-16	BOLT	
⑥ AN310-3	NUT	
AN380-2-2	COTTER	
Ⓜ Q7014-13 .063	WASHER	

NOTE:-
EXCEPT AS NOTED, PARTS SHOWN ON -2 ASSY ARE IDENTICAL WITH -3 ASS'Y.



② ASSY. REAR VIEW L.H. NACELLE



RIGHT SIDE VIEW L.H. NACELLE

NOTES:-
MARK OIL LINES WITH A BRIGHT YELLOW BAND 1/2" WIDE NEAR EACH END.
PART Nº TO BE PAINTED IN BLACK NEAR EACH END.
USE CHAFING HOSE & FRICTION TAPE WHERE NECESSARY.
TAPE ALL HOSE UNDER CLAMPS.
USE PARKER "THREADLUBE" C.P.E. OR EQUIV. ON ALL DURAL THREADS.
ELECTRICAL BONDING SHALL BE IN ACCORDANCE WITH DWG. 28E1198.
ALL ALUM. ALLOY TUBE SPEC 44T32 COND A (52S30)
FINISH TUBES Z.P.2AL OUTSIDE.

Ⓓ ALL PRESSURE LINES TO BE MARKED WITH LIGHT BLUE & LIGHT GREEN BANDS NEAR EACH END.

Ⓟ P. INDICATES PRESSURE
O " OIL LINES.

22Q122-9	CLAMP	
AN520-6-8	SCREW	
AC365-632	NUT	

⑥ 3/4 OD X .049 AL ALLOY TUBE
NAF 213142-12-11 HOSE
NAF 27842-11 CLAMP

28-0-3008 NIPPLE

28-0-3007-3	SEPARATOR ASS'Y	
Q901-20	CLAMP	
⑥ AN3-16	BOLT	
AN310-3	NUT	
AN380-2-2	COTTER	
③ Q7014-13 .063	WASHER	

⑤ 1/2 OD X .042 AL ALLOY TUBE
NAF 213142-8-9 HOSE
NAF 27842-12 CLAMP
NAF 213707-8D ELBOW

-9 NIPPLE (1 REQ'D) (SEE DETAIL)
(BRASS-CAD PLATE) NAF 213690-12 SLEEVE (2 REQ'D)

0908A10-8	CLAMP	
AN520-10-8	SCREW	
AC365-1032	NUT	
28G9017	CLIP SUPPORT	

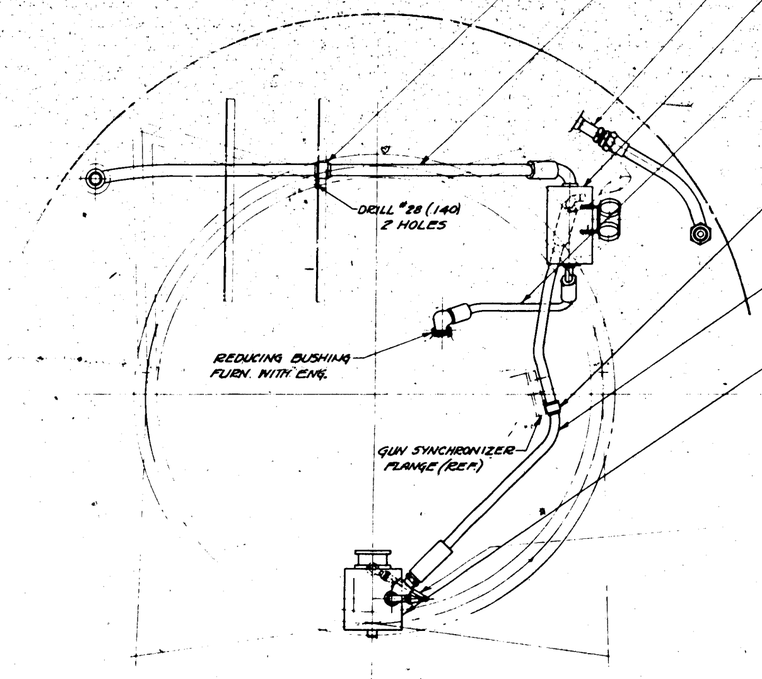
④ 5/8 OD X .042 AL ALLOY TUBE Ⓓ
NAF 213706-10D NIPPLE
NAF 213142-10-11 HOSE
NAF 27842-3 CLAMP

TYPE B-3
PESCO VACUUM PUMP

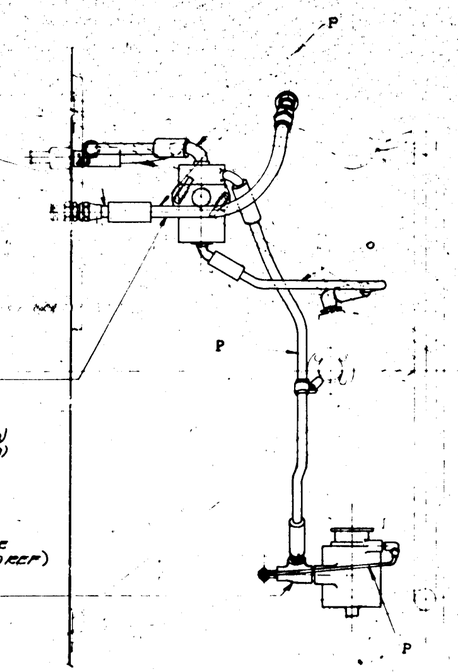
⑧ 3/4 OD X .049 COPPER TUBE
SPEC NW-T-799 TYPE N
NAF 213142-12-11 HOSE (1 REQ'D)
NAF 27842-11 CLAMP (2 REQ'D)

Ⓓ -10 1/4 OD X .032 AL ALLOY TUBE
Ⓓ NAF 213695-4D COUPLING
NAF 213690-4D SLEEVE
28F1215 RESTRICTOR (MAY BE INSERTED IN EITHER END OF -10 REQ'D)

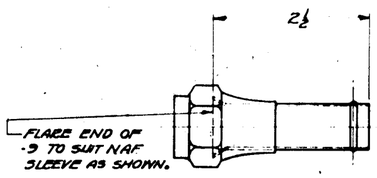
Ⓓ PARKER "2-8-8 MRO TEE



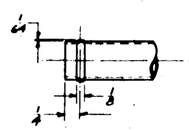
⑨ ASSY. REAR VIEW R.H. NACELLE



RIGHT SIDE VIEW R.H. NACELLE



DETAIL -9
3/4 OD X .035 C.M. STL. TUBE
SPEC. 44T18
SCALE 12"-1:0"



BEAD ENDS OF TUBES AS SHOWN
SCALE—FULL SIZE

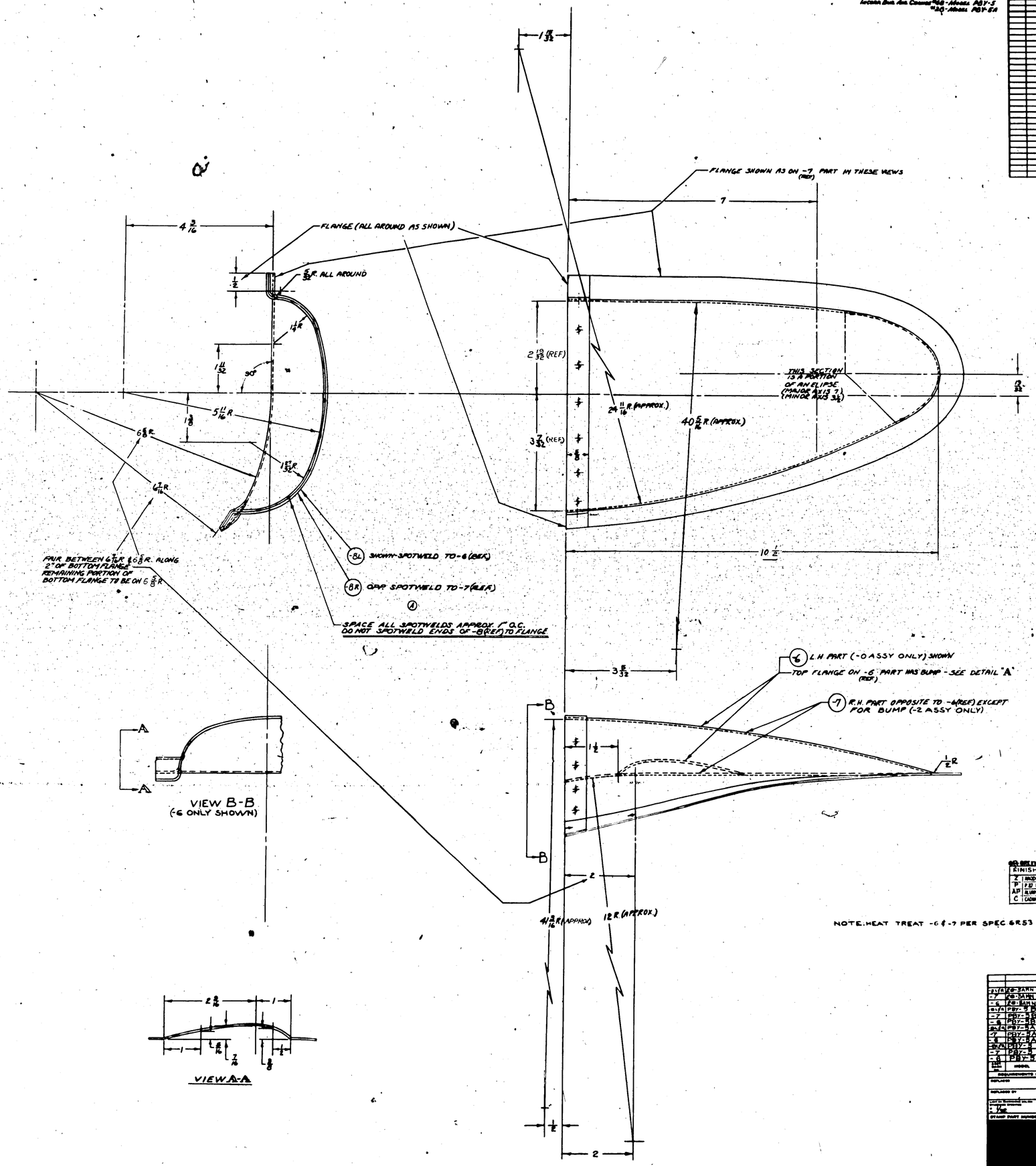
NOTE—
THIS INSTALLATION TO BE USED ON PBY-3 SHIPS "0842 TO "0871 INCL. & "0901 TO "0907 INCL ONLY, ON PBY-4 ALL.
WHEN COMPLETE DE-ICING EQUIPMENT IS INSTALLED.
SALES ORDER 8 925-91-1.

														③	Q7014-13 .063
															Q908A10-8
															AN380-2-2
															AN 310-8
															AN3-16
															AC365-632
															AN815-6-8
														Ⓓ	PARKER TEE 2-8-8 MRO
															AN520-6-8
															AC366-1032
															Q901-20
														Ⓓ	⑤ 213695-4D
															213690-4D
															213690-12
															213142-12-11
															27842-11
															213142-8-9
															27842-12
															213707-8D
															213706-10D
															213142-10-11
															27842-3
															213768-3
															22Q122-9
															28G9017
															28-0-3007-3
															28-0-3007-2
															28F1215
															28-0-3006-10
															28-0-3006-9
															-8
															-7
															-6
															-5
															28-0-3006-4

LET	ALTERATION	DATE	BY
AV	REMOVED FROM B/M 28-0-5001		
	REINSTALLED IN ACCORDANCE WITH DWG. 28E4027		
	ADDED NAF 213707-16D COUPLING		
	ADDED NAF 213826-4D NUT, NAF 213830-4D SLEEVE		
	ADDED NAF 213826-4D COUPLING		
	ADDED NAF 213707-16D COUPLING		
	ADDED NAF 213707-16D COUPLING		
	ADDED NAF 213707-16

Incorporates Ord. Alt. Changes 968 - Models A8V-5
940 - Models A8V-5A

MKT	ALTERATION	DATE	BY
	ANCHOR CLIPS & RIVETS QTY — # TO SHOW (REF)		
	REMOVED ENTIRE BRACKET ASSY. AIRPLANE PARTS, CONSISTING OF AF-0-[illegible] ASSYS. REMOVED THE RES. 12 B.K. OF AN-C-142 B-4, AN-C-142 B-7, AN-C-142 B-9, AN-C-142 B-11, AN-C-142 B-13, AND REPL. WITH 1-B PBY-5A BRACKET WITH -8 PBY-5A, AN-C-142 B-7, PBY-5A, AN-C-142 B-11 - BLACK, AN-C-142 B-13 GRAY - 1-B PBY-5A, AN-C-142 B-7 (R) - 7 PBY-5A, AN-C-142 B-11 (A) - B1/A PBY-5B, AN-C-142 B-13 (BA) - 8 PBY-5B, AN-C-142 B-11 (A) - 7 PBY-5B, AN-C-142 B-7 (R) - B1/A PBY-5B, AN-C-142 B-9 (FA) - 8 PBY-5A, AN-C-142 B-7 (R) - 7 PBY-5A, AN-C-142 B-11 (FA) - B1/A PBY-5A, AN-C-142 B-13 (BA)		



FINISH CODE	
Z	ANODIC TREATMENT
P	P.F. PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

NOTE: HEAT TREAT -6 & -7 PER SPEC 6R53

PART NO.	STOCK	MATERIAL	SPEC	PARTS LIST FOR ASSY.	NO	-2	-3	-4	-5
28-0-3029-844	.051 x 54 x 110	24 ST ALC	4748 COND.						
28-0-3029-[illegible]	.051 x 74 x 110	24 ST ALC	4748 COND.						
28-0-3029-[illegible]	.051 x 104 x 116	24 ST ALC	4748 COND.						
28-0-3029-[illegible]	.051 x 104 x 118	24 S0 ALC	ANB COND.						

NAVY NOTED	Z-P-24S	HILL	
HEAT TREAT	FINISH	DRAFT	

NAME SCOOP - OIL COOLER DUCT - AUX.

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SHP NAMO: Dwg J — 28-0-5029

H 464

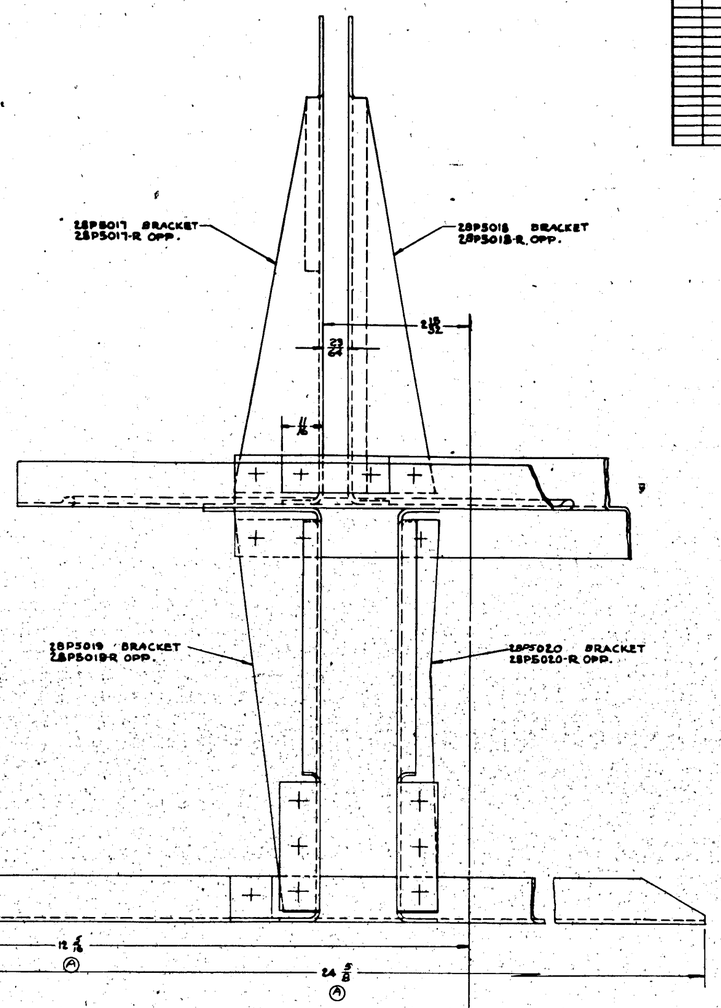
R 6205-0-82

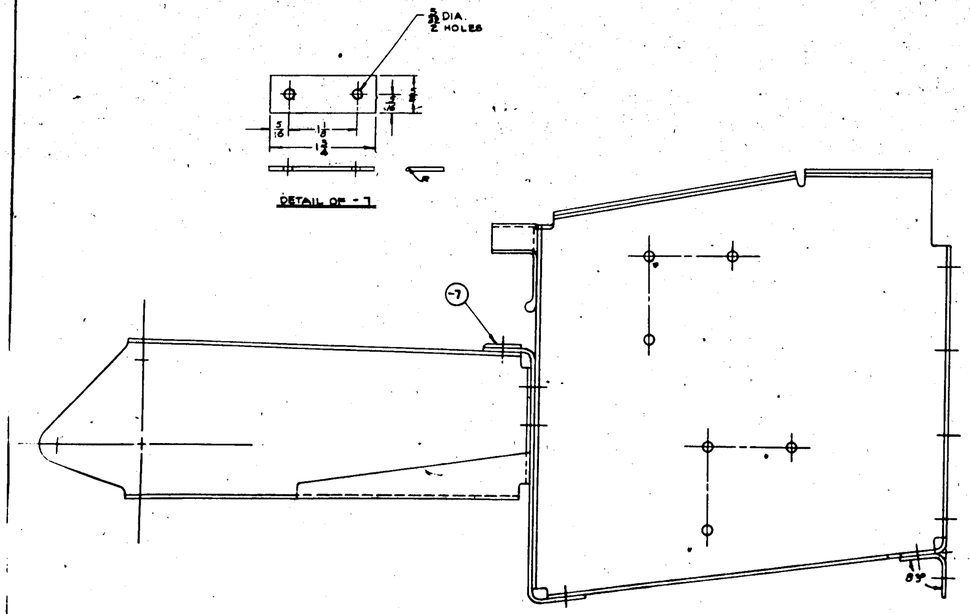
10 NO. AND A/PLANE SER.	LET	ALTERATION	DATE	BY	2 NO.

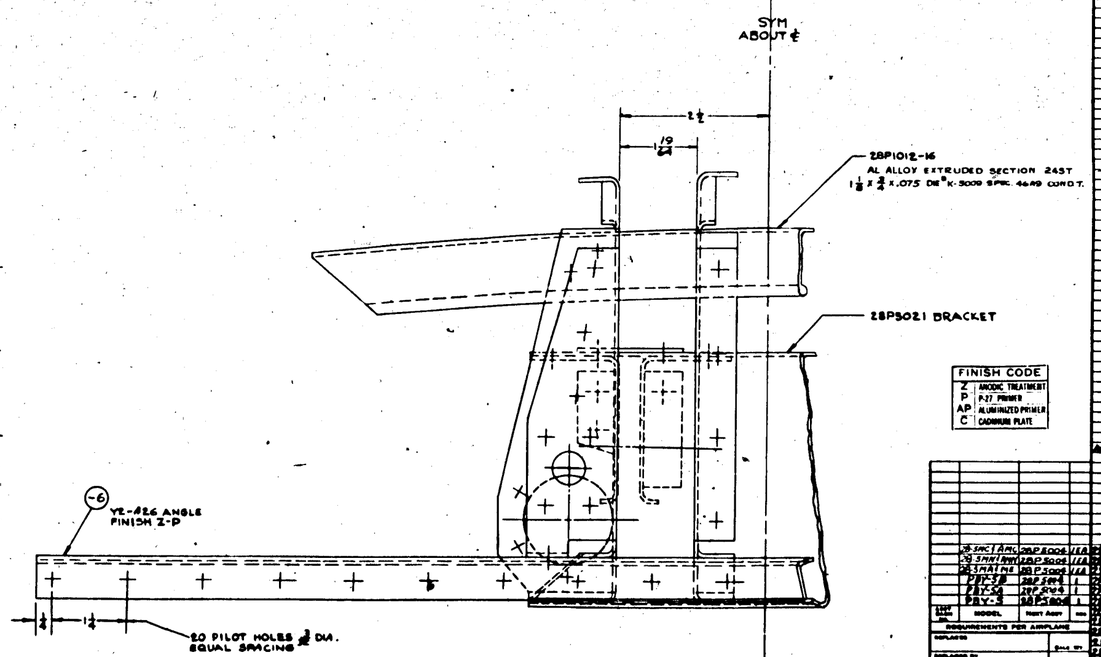
LET		NO. REQ'D	MAT	SPEC	DESCRIPTION	WEIGHT EACH	WEIGHT TOTAL	BY
	4	AN3-10A BOLT (6) RETAINED BY AN196-DP RIVETS (AN455-23 RIVETS IN B/M CHANGED TO AD5SE	2024-T4	.032		WAS 28P5004-5, -108 ARTICLE DRAWN FROM		
EA REPRT	12	MS21042L3 NUT ANTISEIZED (6)				ADDED		
SLEPT.	C	-5E BRITTAIN A/C ADDED, AN312-5-5				CHANGED TO CLEVIS SCREW		
		40 AN470AD4-4 (6), AN525-1032-12 (6)				CHANGED TO (6) AN470AD4-4 (6)	10/41	SHAT
		AN3H4-1032A (6), AN310-5 (6), AN 935-416 (6), AN960-416, SAE#1176				ADDED WHERE FOR TAPER PIN DRILL & REAM TO MATCH		
DEPT		AD5SD-16 WASHER (6)	2024-T4	.032		ADDED VIA DIM FOR ARMOR		
	B	AN315-8-16 NUT, AN6115-8-16				CRANK ASSY (NO WT CHG)	11/41	
20021		AN315-8-15 NUT AN615-8-8				AN3-17 (4) W/AN3-18 (4)		
SB-3M4 6P5M3	E	AN3706-22 W/AN515-8-8				(DES. W. 4.416)	6/42	
	A	ADDED SECTION E-A				IN B/M FOR -8 REPLACED BMS		
E.A.37828	B	ADD'S -8B26-DP-6881, AN 525-1032-12				7/16 33" WITH AN-525-1032-12		
		AD5SD-16 (2) AN 364-D1032 (2) AN 960-416 (2) AN 935-416 (2)				FACE OF DWG. AT -8 ADDED		
*E.A.28P4250 A PBY-3, 5B-3M5, PA, PC, PK		AN960-5L WASHER (2)				-7A TO 000 TO 145,000 V/S		
	H	ADDED -5E, -7, -7A, -8 (2) AN 960-D10 WASHER (2) AN 310-3 NUT (2) AN 3-17 BOLT (2) AN 3-18A BOLT (2) AN 960-10L WASHER (2) AN 960-416 WASHER (2) AN 960-516 WASHER (2) AN 960-616 WASHER (2) AN 960-716 WASHER (2) AN 960-816 WASHER (2) AN 960-1016 WASHER (2) AN 960-1216 WASHER (2) AN 960-1416 WASHER (2) AN 960-1616 WASHER (2) AN 960-1816 WASHER (2) AN 960-2016 WASHER (2) AN 960-2216 WASHER (2) AN 960-2416 WASHER (2) AN 960-2616 WASHER (2) AN

LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	12.75 WAS 12.76 ; 24.75 WAS 24.74 CHANGE AN 514-4 YR-A286 X 2.94 WAS YR-A286 X 2.75		







NOTE—
ALL RIVETS TO BE AN442-D5

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

AN442-D5

SYM	MODEL	PART NO.	QTY
-26 SHC	1 ARC	28P5006-1	1
-26 SHA	1 RH	28P5006-1	1
-26 SHA	1 LH	28P5006-1	1
PBY-5A	28P5006	1	
PBV-5	28P5006	1	

REQUIREMENTS PER AIRPLANE

REPLACES

REPLACED BY

LOT NO.	SCALE
20 & 21	12" = 1'-0"

STAMP PART NUMBER WHERE SHOWN

PART NO	STOCK	MATERIAL	SPEC	LT REQ -0	LT REQ -2	LT REQ -3	LT REQ -4	LT REQ -5
28P1012-16								
28P5006-1	1.25 DIA X 7.96		PHENOLIC 30	1	1	1	1	1
28P5006-2	YE-426 X 7.46			1	1	1	1	1

PARTS LIST FOR ASSY.

A C

NAVY NONE | AF

HEAT TREAT | FINISH

DRAFT | CHECK | ENGINEER | DAY | APPROVED | DWG

NAME BRACKET ASSEM. ENGINE CONTROLS (BULKHEAD)

CONSOLIDATED AIRCRAFT CORP. - SAN DIEGO, CALIF.

SPP HAND

SIZE J | DWG NO. 28P5006

H 467

R 28P5006

FOUNDRY NOTE: THIS SURFACE TO BE CAST FLAT & SMOOTH.

MACHINE FINISH

CUT OFF WEB WITH 1/8 R ABOUT ℄ FOR ASSEM OF 32P023 SHAFT (REF)

SECTION C-C
FULL SIZE

SECTION F-F
FULL SIZE

SECTION D-D
FULL SIZE

*10-24NC3 TAP 4 HOLES EQUALLY SPACED - BOTH ENDS

*10-24NC3 TAP 7 HOLES EQUALLY SPACED BOTH SIDES.

VIEW E-E
FULL SIZE

(F) MACHINE IF NECESSARY TO OBTAIN THIS DIMENSION.

(E) LINE REAM NOT MORE THAN .005 OUT OF LINE WITH FINISHED SURFACE, ABOVE. SURFACE ℄ NOT MORE THAN .008 BELOW SURFACE BEFORE TAPPING 5/16-11 N C 3 THRU.

SECTION A-A
FULL SIZE

28P5009

*NOTE:- DRILL #18(.1695)(REF) - 8 HOLES DIM LOCATING THESE HOLES MAYBE FOUND ON DWG 28P5008

NOTES:
UNLESS OTHERWISE SPECIFIED:
WALL THICKNESS 1/8
CASTING LIMITS ± 1/32
MACHINING LIMITS ± .010
FILLETS 1/8

LINE REAM FOR PRESS FIT WITH KINGSWELL PRODUCTS CO OILITE BUSHING "A-604-1(REF)

SECTION B-B
FULL SIZE

LET	ALTERATION	DATE	BY	CHK
A	ADDED VIEW "E" SHOWING CUTOUT PROVIDED FOR MACHINING VALVE SEAT	6-8-42		
B	ADDED NOTE - DRILL #18(.1695)(REF) - 8 HOLES & ETC.	7-8-42		
C	AL ALLOY CAST SPEC-AXS-624-CLASS 5 SUPERSEDES AXS-624	2-2-43		
D	REMOVE 1/8 DIM 3/4 R FROM DIM	2-25-43		
E	ADDED 3/8 R DIM ADDED	3-5-43		
F	NOTE REVISED	3-5-43		
G	NOTE ADDED 1/2 R DIM ADDED FROM MARK	3-5-43		
H	ADDED - 3/64 DIM. ADDED	4-7-43		
J	ADDED 3/64 DIM	5-7-43		
K	13/64 WAS 1/2	6-2-43		
L	REMOVED NOTE "ALL FINISH" ADDED MACHINE FINISH ADDED 1/64 TOL	7-2-43		
M	8 HOLES WAS 4 HOLE ADDED	7-2-43		
N	3/64 WAS 1/16	8-2-43		
P	SECTION F-F ADDED TO FACE OF DWG	8-2-43		
Q	7/64 R REMOVED	9-4-43		
R	ADDED 28P5008 TO FACE NO WT CHG	9-4-43		

PBY-5 E.O. 32998 E.O. 04836

FINISH CODE	
Z	ANODIC TREATMENT
P	9-27 PRIMER
GP	GRITS PRIMER
C	CHROMATE PLATE
AP	ALUMINIZED PRIMER

OA-10	28P5006	2
SB-3 MN	28P5004	2
SB-3 MC	28P5004	2
SB-3 MA	28P5004	2
SB-3 ME	28P5004	2
PBY-5A	28P5008	2
SB-3 AMC	28P5004	2
PBY-5A	28P5008	2
PBY-5	28P5008	2

LIST NO.	MODEL	NEXT ASSY	REQ'D						
DISPOSITION OF AIRPLANE									
REPLACED									
REPLACED BY			EFF. DATE						
1 AIR FOR ASSEMBLY NO. 10	2 AIR FOR ASSEMBLY NO.	SCALE	12"=1'-0"	PART NO.	AL ALLOY CASTING				
3 PARTS LIST NUMBER 28P5009	4 PARTS LIST NUMBER			STOCK	MATERIAL	SPEC			
STANDARD PARTS ENGINEERING DEPARTMENT				PARTS LIST PER ASSY			-0	-2	-3
							REQ'D	REQ'D	REQ'D

A.C. NAVY 26000 ALL OVER PAINT (SPECIFICATION) 619 PB

HEAT TREAT | FINISH | INSPECTION NO. | DATE | WT. | LOT

NAME: SCOOP CARBURETOR AIR

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SHOP NAND | SIZE J | DWG NO. 28P5009

28P5009 R.

H 468

E.O. 21387
E.O. 27471
E.O. A12849

NO.	DESCRIPTION	MAT'L	NO. REQ'D	REMARKS
-1	ASSEMBLY BOOM PROP HOIST		1	
-2	ASSEMBLY BOOM PROP HOIST		1	
-3	ASSEMBLY BOOM PROP HOIST		1	
-4	ASSEMBLY BOOM PROP HOIST		1	
-5	ASSEMBLY BOOM PROP HOIST		1	
-6	TUBE	4130	1	
-7	FITTING	4130	1	
-8	FITTING	4130	1	
-9	FITTING	4130	1	
-10	TUBE	4130	1	

14½

17 15/32

17⅝

SYMM. ABOUT ℄

-6 .049 PARALKETONE FINISH INSIDE

-10 MAT'L SAME AS -6

51 15/16

B B

2¼

A A

1⅝ 10" 2 5/8 3/16 DRILL 2 HOLES 22° 1 7/16 3/16" 3/16 10½°

2 7 L.E.R. 35°

VIEW A-A
12" = 1'0"

7/8 DIA. 15/16 -8 (SEE 28P1018-6 FOR TOOLS) 2¼ 42° 13/16 -9 (SEE 28P1018-5 FOR TOOLS) 2¼ 2¾ 3/16 DRILL 2 HOLES

VIEW B-B
12" = 1'0"

WELD AS SHOWN
BREAK SHARP CORNERS

FINISH CODE	
A	ANODIC TREATMENT
P	PAINTING
AP	ALUMINUM PRIMER
C	CADMIUM PLATE

NOTE:
Ⓒ 3.0-P-8A LACQUER EXTERIOR. FLUSH INTERIOR WITH PARALKETONE.

Ⓑ * ALTERNATE MATERIAL FOR -6L, -6R & -10: CHROME-MOLY, WELDED TUBING, AN-T-8, TYPE I, COND. N.

PART NO.	STOCK	MATERIAL	SPEC.	-0	-2	-3	-4	-5
PARTS LIST FOR ASSY.								

NAVY NAF SM 27-5	FINISH	SEE NOTE	

NAME: BOOM ASSY-PROP HOIST

CONSOLIDATED AIRCRAFT CORP.

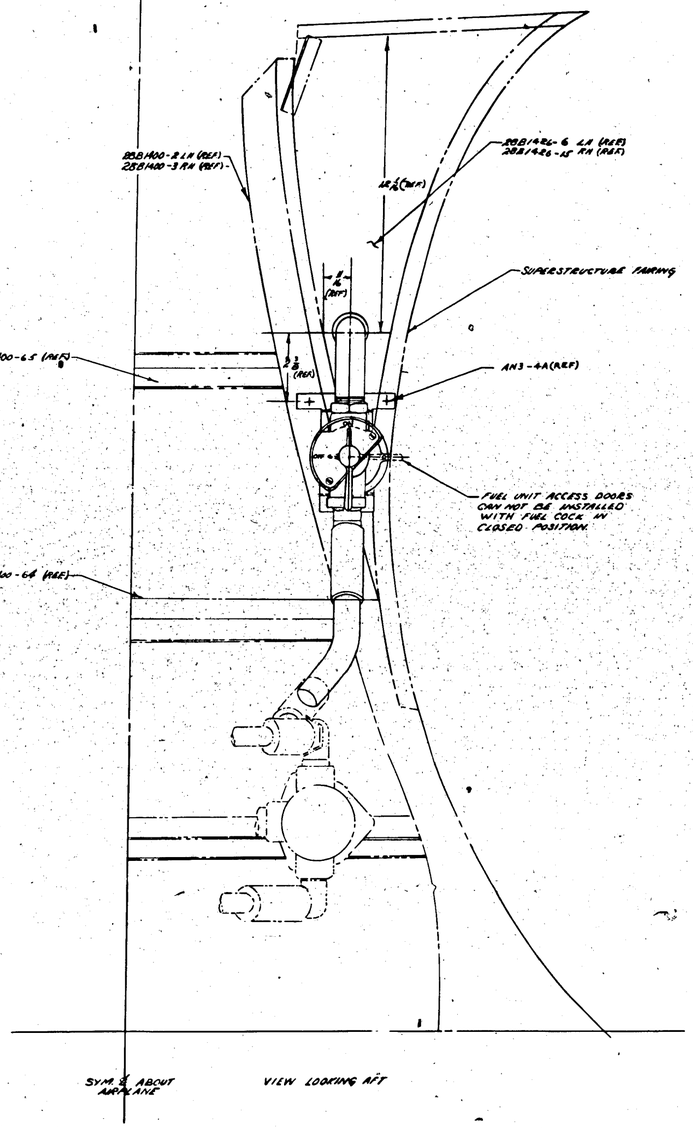
SIZE J — 28P5047

H 469

R 28P5047

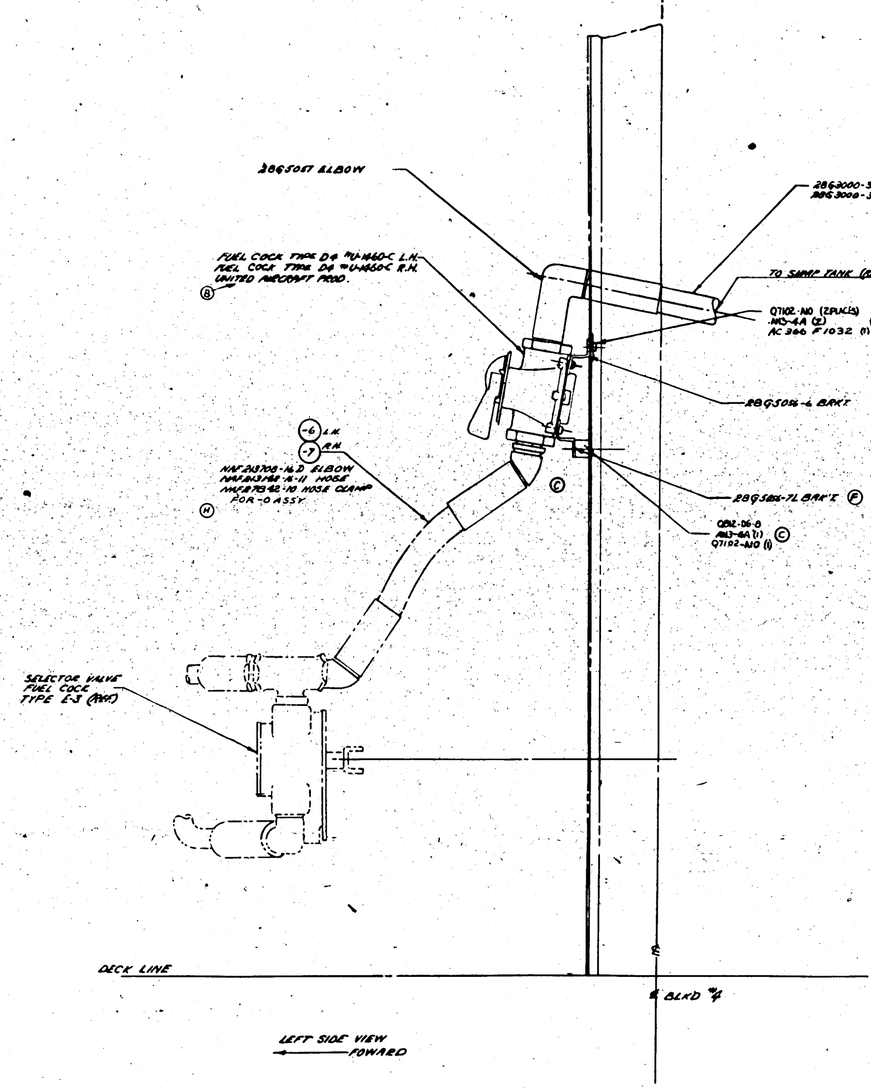
LET	ALTERATIONS	DATE	BY
A	ADDED REVISED -4 & -5 ASSYS.		
	ADDED AND DELETED PARTS AS REQ'D.		
	CHGD. NAF PARTS NOS.		
	DELETED "UNLESS OTHERWISE DESIGNATED"		
	ADDED "UNLESS OTHERWISE SPECIFIED"		
E.O. 57268	B	FUEL COCK TYPE D6 "U-1460 C" LEFT HAND LIMITED AIRCRAFT PROD.	
		ADDED -6 & -7 ASSYS.	
		WAS: FUEL COCK TYPE D-1A L.H.	
		28A5000-3 & 28A5000-4	
E.O. 35965	C	ADDED TUBE & NUT ASSYS.	
		CHG. -9 & -10 ASSYS. TO -11 & -12	
E.O. A4668	D	CHGD. "ON ENG. TO" TO "ON A/C"	
		IN -2 & -3 WAS 4" IN -5	
	E	RELOCATED FROM "U-1460-C"	
		BALANCE-7 TUBE ASSY. & BRACKET	
		ASSY. (28A5000-33) CHANGED AS	
		-9 & -10 SUB ASSY.	
E.O. 57605	F	CHANGED ON PAGE OF DRAWING	
		28A5000-2 TO 28A5000-31	
		REMOVED FROM "U-1460-C"	
		FORK - ROTOR ASSY REPLACED BY	
		28A5034-7R	
		-9L ROD ASSY 28A5040A-7	
		REPLACED BY 28A5040A-7L	
		NO. WT. CHG.	
MCR 1180-A	G	LIMITED REG'D AIRPLANE	
		AS FOLLOWS - PAGE 4A	
		PER E.O. 57605 REF. SEC. 331-3.01	
		& 331-3.02 7-1-48	

LET	ALTERATIONS	DATE	BY
	ADDED PAGE 4A & PAGE 4B		
	CHGD. TO CONFORM WITH		
	PRESENT AIR PRACTICE		
	CHANGED FROM -1		
	ASSY. TO -1 ASSY.		
	ADDED -4, -5 & -6 ASSYS.		
H	ADDED TUBE AND NUT ASSY 28A5000-37 & -38	7-1-48	CPM
	UNLESS OTHERWISE SPECIFIED		
	-11 ENGINEER'S FOR -9 ASSY.		
	CHANGED -3 ASSY. TO -11 & -5		
	TO -12 & -6 TO -13		
	DELETED -4 ASSY. TO -11 & -12		
	ADDED NAF 21870-2 TO -2 & -3		
	ASSYS.		
	DELETED FOR CONTRACT		
	AS SPECIFIED - 7-1-48		
	NUT ASY-12-2 WITCHE. NAF 21870-2		



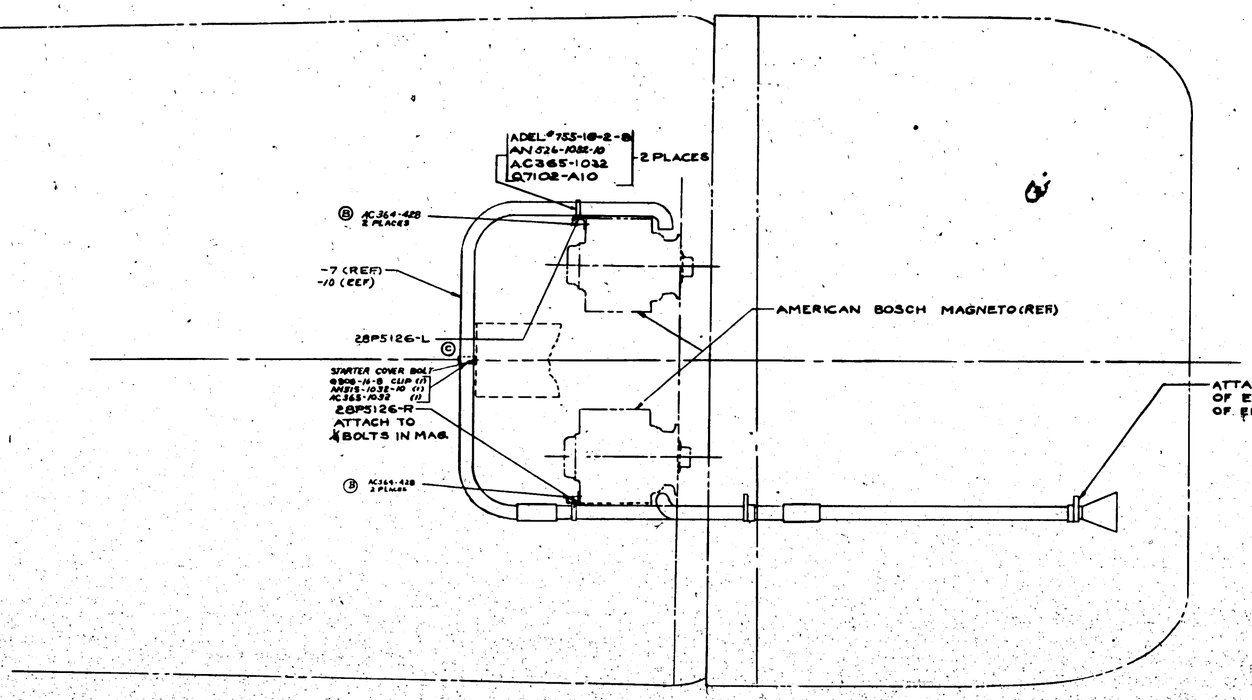
SYM. ℄ ABOUT AIRPLANE

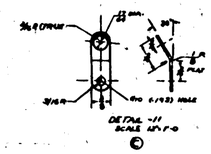
VIEW LOOKING AFT

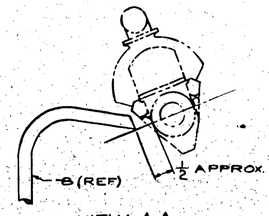


LEFT SIDE VIEW
FOWARD

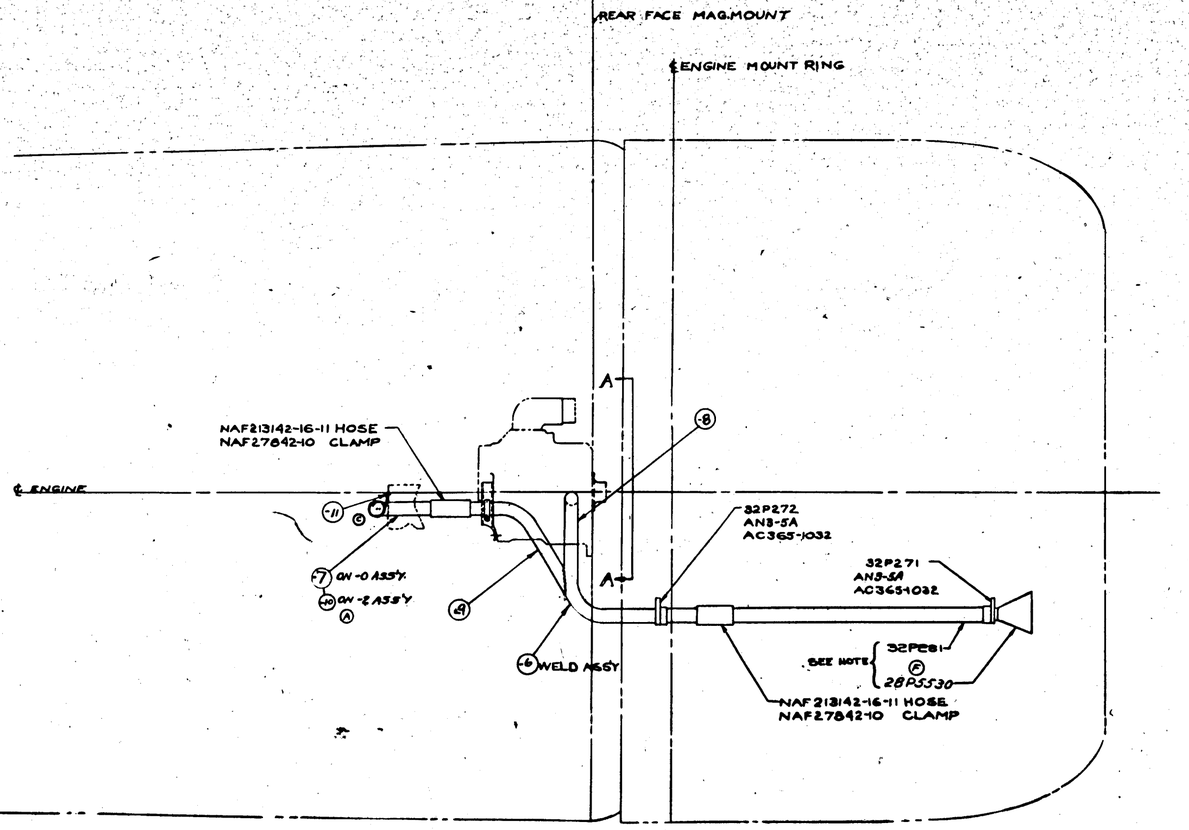
| | | |







VIEW A-A



NOTE
ENGINES EQUIP WITH SCINTILLA MAGNETOS (SHIPS # 1 TO 368 # 98 TO 42 INCL)
(A) USE 28P5148 BLAST TUBE INSTAL.
USE 28P5330 FOR SPARES & REPLACEMENTS IN LIEU OF 32P281

FINISH CODE	
Z	BASIC TREATMENT
P	ALK PRIMER
ALP	ALUMINOLD PRIMER
C	CHROMIUM PLATE

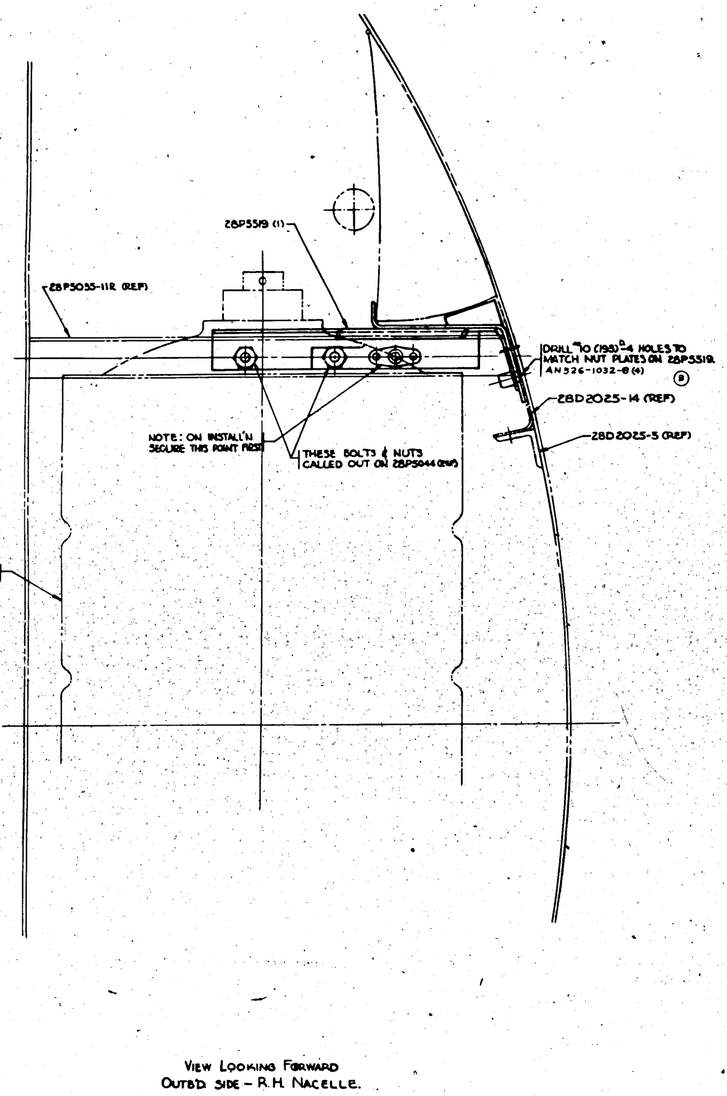
NONE | Z-P-AP

INSTALLATION
MAGNETO BLAST TUBE
CONSOLIDATED AIRCRAFT CORP.

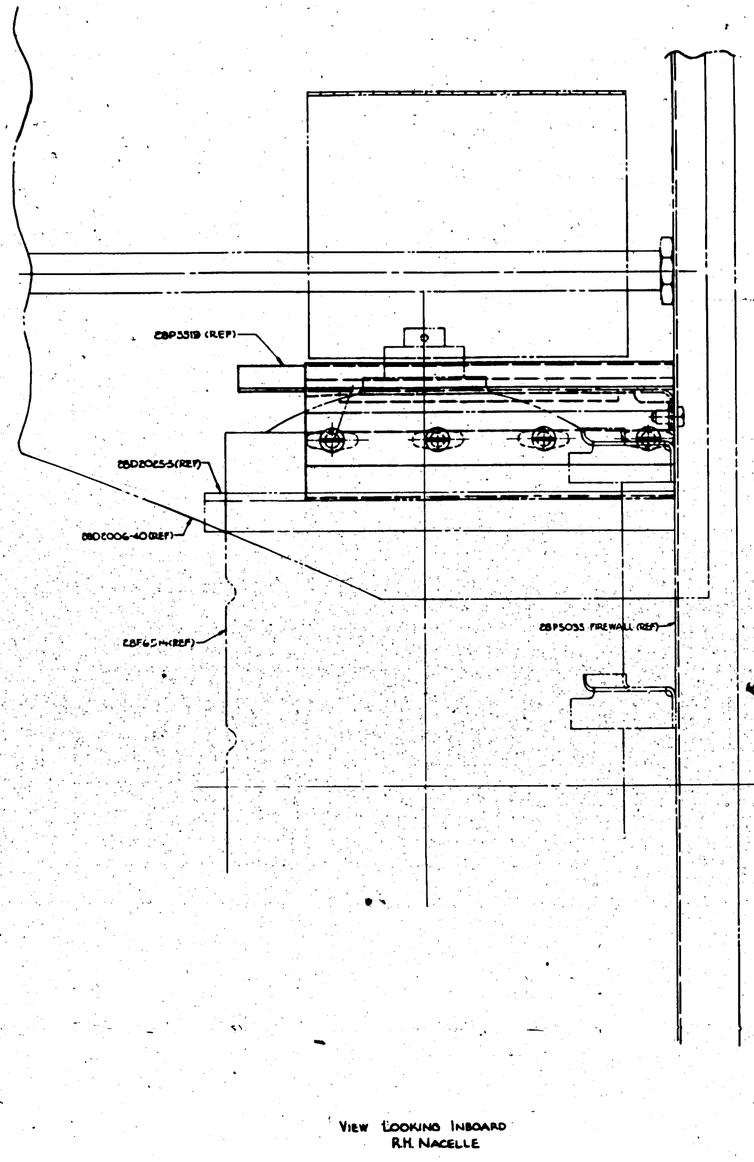
J | 28P5127

H 471

LET	ALTERATION	DATE	BY
A	REVISED TO AGREE WITH E.O.P. A&S ECN. 5K		
B	NOTE DRILLING ---- ON 28P5519 WAS DRILLED ---- ON 28P5518 CONFUSING AS WRITTEN AT ECN -1024-R00 WAS AN 8-10-43 W.T. CHANGE	8-10-43	



VIEW LOOKING FORWARD
OUTB'D SIDE – R.H. NACELLE.



VIEW LOOKING INBOARD
R.H. NACELLE

PART NO.	DESCR.	MATERIAL	SPEC.	LET	LET	LET	LET	LET	LET
				-0	-2	-3	-4	-5	-6
AN526-1032-8									

PARTS LIST PER ASSY.

A6					
NAVY					
HEAT TREAT		FINISH			
			DRAFT	CHECK	ENGR

NAME INSTALL'N - STEP - NACELLE COWL - POWER PLANT

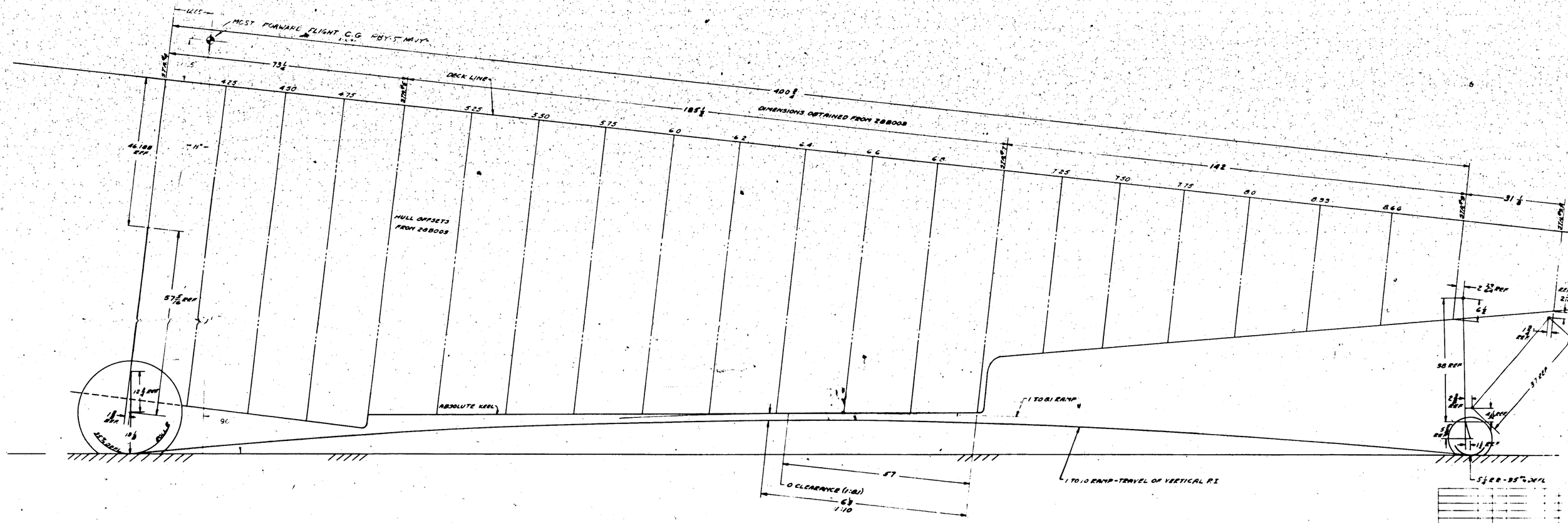
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG. NO. 28P5520

28P5520

H 472

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
A	TRACED	7-10-57	[illegible]



H 473

| REPLACED | | |

SUPPLIES & EQUIPMENT CLASSIFICATION		
LET	ALTERATION	DATE / BY
W	TRACED UP TO DATE	7-27-43
X	-10 CHANGED FROM MFG DRAWG TO REC. FROM STAINLESS STEEL	8-2-43
Y	REVISED "LP HOLE ASSEMBLY" ADDED HOT END. RIVETING AND TRIM	8-16-43
Z	CHANGED DIMS 1 & 2 WERE 1R & 2	11-4-43
AB	ADDED NOTE "R.H. ---- SHOWN" NS WT. CHG.	8-28-43

E.O. 18401

19-5-6 B 1311 (Instrument)

DRILL $\frac{1}{8}$ - 2 HOLES

SECTION C-C.

(-3) SKIN .020 ALUM. ALLOY SHEET SPEC. 47A10 (CONDITION-T) ALLOY 24T.

DRILL $\frac{3}{16}$ - 2 HOLES IN TRAILING EDGE

CHECK THAT THESE OPENINGS ARE FREE OF PAINT, ETC. EACH END

(-8) (-7) OPP.

(REF) L.H. (-2) R.H. (-13)

HINGE (FLAP SIDE) 2 REQ'D. MAKE FROM 3M017 $32\frac{7}{8}$ LG. AL. ALLOY SPEC. 47A3 (COND.T) ALLOY 17T.

(-14)

Q4305-D4 RIVET SPACE 1" CENTERS

USE P.K. Q5093A-6-4 SCR. ON ONE SURFACE. CADMIUM PLATING TO BE A MINIMUM OF .0005 THICKNESS ON P.K. Q5093A-6-4 SCR.

(Y)

(-5) (-12) OPP.

(-4) (-11) OPP.

Q4305-D4 RIVET SPACE 1" CENTERS

AN442-D5-4 REQ'D.

Q4305-D4 RIVET SPACE 1" CENTERS ALONG HINGE

STAKE LIGHTLY 3 PLACES EACH SIDE

Q4305-D4

AC 995-32 LOCK WIRE

28T033

DRILL $\frac{7}{16}$

(-6) FAFNIR BALL BRG. MC3

MAKE FROM (-9) 3M017 - $32\frac{7}{8}$ - 2 REQ. ALUM. ALLOY SPEC. 47A3 (CONDITION Y) ALLOY 17-T

(-10) HINGE PIN .090 DIA. STAINLESS STEEL WIRE SPEC. 28W13 COND. H.

(X)

SLOT - DIMENSIONS IN TWO VIEWS

$32\frac{7}{8}$

L.H. (-2) BEAM .030 ALUM. ALLOY SHEET SPEC. 47A10 (CONDITION T) ALLOY 24-T
R.H. (-13)

DETAIL B-B FULL SIZE

28T033

D.W.M. BEND LINES

(-5) GUSSET .020 ALUM. ALLOY SH'T. SPEC. 47A10 (CONDITION-A) 24-A.

(-12) OPPOSITE

NOTE - ALL BENDS $\frac{1}{8}$ R.

(-7) RIB - ALUM. ALLOY SHEET .020 SPEC. 47A10 (CONDITION A) ALLOY 24-A

(-8) RIB - OPPOSITE ALUM. ALLOY SHEET .020 SPEC. 47A10 (CONDITION A) ALLOY 24-A

(AB) NOTE:
R.H. PART SHOWN
L.H. OPPOSITE

SECTION A-A

(-4) RIB - ALUM. ALLOY SHEET .020 SPEC. 47A10 (CONDITION-T) ALLOY 24T.

(-11) OPPOSITE

FINISH-INTERIOR Z-P-2 ANP GP.
EXTERIOR Z-P-2 ANP GP.

FINISH COLL	
A	ANODIC TREATMENT
P	PAINTING
AP	ALUMINIZED PAINTING
C	CADMIUM PLATE

| | | |

MFT	ALTERATION	DATE	BY
AQ	ADDED SHT TO NEW A A REVISED NOTE	11-15-62	EA 26 651
AP	ADDED NOTE 18	11-15-62	EA 18389
AO	ADDED PK SCREW NOTE	9-24-62	EO 5203 NORTHROP
	ADDED PART NO 213055-3		FBY-6628-SME
	28W011-29 (10) EACH TO FACE		
	OF ITEM 213055-3 (STRUCTURE)		
	REMOVE 10/32 W ASSY (167)		
AN	CHANGED 213055-3 ASSY TO	9-21-62	EO 4148
	MACHINE		
AM	REMOVE NOTE 4 "ALL METAL — PAINT P-37 FROM NOTE 17 "USE CELLULOSE TAPE — & FABRIC, NO WT CHG.	4-23-62	EO 7212.0

MFT	ALTERATION	DATE	BY
		8-27-62	
AL	ADDED 28W011-29 (6) L-AR	8-27-62	EO 7436
AK	ADDED INSTRUCTIONS FOR INSTALLATION WT-3 ADDED NOTE TO USE CELLULOSE TAPE BETWEEN ADHESIVE TAPE & FABRIC, ADDED NOTE 7A		EO 7483
AL	ADDED -39, -31, -40 & -41 AS ASSY REQ FOR 2BT2003-61		
AM	FOR FBY-163 REMOVE MAT. 10-5-62 2BT2003-1, ADDED MAT 213055-3 NOTE TO USE CELLULOSE TAPE BETWEEN ADHESIVE TAPE & FABRIC, ADDED NOTE 7A		EO 07436A
	ADDED 28W011-29 28 EA REQ		
	ADDED 28W011-29 (6) L-AR		
AN	ADDED DELRIN POLYS WERE B, SPECIFIED GREEN CERT'S REQ'D	10-31-62	
AO	REMOVED -3, -39, -40, -41 (WAS QTO 2BT2003-1) ADDED -50 (WAS QTO 2BT2003-1)	11-16-62	EO 16434 FBY-5
AP	ADDED REF (-1) (-1 REQ'D) -40 & -41		EO 8031 FBY SPARES

MFT	ALTERATION	DATE	BY
S	FINISH		
T	CHANGED QTY IN -4 ASSY		
U	ADDED 28W011-29 GROMMETS & BOSS SHEET & GROMMETS &		
V	ADDED NOTE 19 & INFO.	12-3-62	
W	ADDED 213055-3 GROMMET TO ASSY	12-12-62	
X	ADDED SHT 2 TO -4 ASSY. CHANGED QTY FROM 2 ADS TO 3 ADS OF -19	12-24-62	
Y	ADDED NOTE 20 & 21, CHANGED QTY OF -19 ADS FROM 3 TO 4 ADS, ADDED NOTE 22	1-28-63	
AA	CHANGED 213055-3 PART # TO CORRECT 213055-3 GROMMET & ADDED -19 ADS TO -4 ASSY	2-19-63	
AB	CHANGED 213055-3 GROMMET TO 213055-3 GROMMET & ADDED NOTE 23	2-27-63	
AC	CHANGED QTY OF -19 ADS FROM 4 TO 5		
AD	ADDED NOTE 24		
	SEE UPPER LEFT HAND PAGE		

SECTION E-E FULL SIZE
INSTALL OF EMPENNAGE AT MIMIC

SECTION C-C FULL SIZE

VIEW D-D FULL SIZE

VIEW G-G
SCALE 12"=1'-0"

VIEW B-B FULL SIZE

VIEW H-H
SCALE 12"=1'-0"
TYPICAL IN TRAIL. EDGE AT TAB CUTOUT

SECTION A-A
FULL SIZE
SHOWING ATTACHMENT OF FLAP AND ANGLE AFTER COVERING IS ON.
SEE DRAWING 2BT2003.

DETAIL F-F OF -19 (REF)
½ SIZE

TYPICAL IN TRAIL. EDGE EXCEPT AT TAB CUTOUT

NOTES:
1 COVERING TO BE IN ACCORDANCE WITH SPEC. SR63A
2 SEW SEAMS WITH #8 4 COTTON THREAD SPEC. MIL-T-6396, TYPE 1 OR 3 SEW CABLE TO RIBS WITH #11 LINEN LACING CORD SPEC. VT295
3 MARKING TO BE IN ACCORDANCE WITH NAVY SPEC. SR6 & END LACING KNOT TO BE STARBOARD KNOT AND 9 OF SR6A
7 COVER ALL SHARP EDGES IN CONTACT WITH FABRIC WITH MOISTURE PROOF LACQUER WITH FORMED RIVET HEADS IN CONTACT WITH FABRIC
(A) CELLULOSE TAPE MAY BE SUBSTITUTED FOR ADHESIVE TAPE AS AN ANTI-CHAFING MATERIAL FOR USE OVER SHARP EDGED RIVET HEADS

FINISH
(2) DOPING SPEC 3D TO, 18 TO BE COMPLIED WITH IN THE DOPING OF COVERING.
2 COATS BERRY BROS CLEAR NITRATE DOPE - D-15 SPRAYED, 2 SPRAYED
2 COATS BERRY BROS PIGMENTED DOPE SPEC. D-16
DOPE TO BE PIGMENTED IN ACCORDANCE WITH SPECIFIED SQUADRON TAIL COLORS

| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
F	PROCED	9-9-37	
G	CONN "B" & REMTS ADDED	11-2-37	
H	MATL SPEC 4710 10-14-9-18-22-26 -35 MISC AL ALLOY SHEET	12-7-37	
I	AT SPARE BLK NOTE ADDED 1464-15	"	"
	B-108 STAMP METHOD SEE NO. 6-7	"	"
J	ADDED AN470 DD-5L-8R	"	"
	LI BM AN364-DF832 NAS 101	"	"
	RECONSTRUCTION PLT. A-1013-DF 6-101	"	"
	ADDED ALL GEAR NOTES.	"	"
	DATE AMOUNT USED TO DATE	"	"
K	REVISED BOM TO SHOW PARTS USED ON SUB-ASSY'S.	2-28-38	
L	REFERRED - 6.65 SUB-ASSY'S ADDED AC BM DETAIL	6-20-38	
M	ADDED -7 USED FOR PBY-5	7-12-40	
N	REPLACED -9 & -8 ASSY'S, FOR PBY-5 WITH -67 & -58 ; ADDED NOTE	10-4-40	
P	ADDED -100 REQ. FOR ALL 28-5 MODELS	4/10/42	
	.032 ALCLAD - SPEC. 4748 WAS .020 ALC. SPEC. 4748 FOR -65 & -67	12-10-42	
R	ADDED NOTE "CUT FAIRING... CABLE		
	4 SHOWN(WAS) REPLACED W/ 4 UNDER	7-9-43	
	BM PAGE OF DRWG CHANGES LIST		
	6-32 TAP WAS 8M (8 PLACES)		
	ADDED NOTE "TRIM ON INSTALL TO CLEAR ACCESS DOOR"		

CO. "7668

E.O. 23818

E.O. 23919A

(NORTHROP) E.O. 6218

E.O. "20340A

SYMMETRICAL ℄

(35) (36) ½ x ⅜ COMM. NEOPRENE

(32) (37) ½ x ⅜ COMM. NEOPRENE PAD

19½

(2) (3) REF.

(4) (5) REF.

△ .090 ALCLAD SPEC. 4748 COND T

(16) L.H. (15) R.H.

TAP 6-32 AN515-D6-8 } REF. AN960-D6

AN425-D3

AN515-D8-8 } REF AN960-D8

14

△ (10) L.H. .020 ALCLAD, (11) R.H. SPEC. 4748 COND A-30

(37) -100 ASS'Y L.H.

(4) -8 ASS'Y L.H.

(5) -10 ASS'Y R.H.

(38) -100 ASS'Y R.H.

[7] DENOTES (-9) SUB-ASSY DIM.

△ DENOTES (-5) SUB-ASSY DIM.

SHAPE OF -50 TO BE ESTABLISHED ON 1ST SHIP. -56 CAN BE DROP HAMMERED

(50) SUB ASSEMBLY (FOR -100 ASS'Y)

(36) SUB-ASSEMBLY (FOR -10 ASS'Y)

5/16 ACC. (REF.) Q4303-D3

11/16

C

D

2⅜

3½° REF.

2½

AC 364 DF 632 * (SEE NOTE) AN425-03

[6] .032 ALCLAD - SPEC. 4748 COND A - 2450

(44) (37)

DRILL #27 (.1440)

(23) (51) ½ x ⅜ COMM. NEOPRENE PAD

(24) ½ x ½ COMM. NEOPRENE PAD

℄ STABILIZER

(54) (29) ½ x ⅜ COMM. NEOPRENE BETWEEN -57 & -65-7.

(21) ½ x ⅜ COMM. NEOPRENE PAD

(25) ½ x ½ COMM. NEOPRENE PAD

B

AN315-D8-6

(33) R.H. .090 x ⅜ ALCLAD STRIP

(32) L.H.

AC 364-DF 828 SPACE APPROX. 2½

(30) (53) ½ x ⅜ COMM. NEOPRENE PAD.

SECTION D-D SCALE: 12" = 1'-0"

(34) L.H. .090 ALCLAD STRIP

(35) R.H.

SECTION E-E

AN425-03 3 PLACES

6-32 TAP

(R) CUT FAIRING TO PERMIT INSTALLN OVER CABLE

6-32 TAP

6-32 TAP

(2) L.H. (3) R.H. SUB ASSEMBLY

TRIM ON INSTALL TO CLEAR ACCESS DOOR 2851006-12

SEE NOTES 38

TAIL POST REF. LINE

(4) L.H. (7) R.H. .020 ALCLAD SPEC 4748 COND A 30

(28) ½ x ⅜ COMM. NEOPRENE PAD.

(27) (REF.)

(30) ½ x ⅜ COMM. NEOPRENE PAD

NOTE: FOR LAYOUT & DETAILS OF ASSEMBLY SEE DRT 1065.

SECTION C-C SCALE: 12" = 1'-0"

SECTION B-B SCALE: 12" = 1'-0"

SECTION A-A SCALE: 12" = 1'-0"

GENL NOTES:- ALL SCRS ETC. REFERENCED ON THIS DWG ARE CALLED OUT ON 28T2001. LETTERS GC & EGK INDICATE SIZE AND APPROX LOCATION OF RIVETS CALLED OUT ON 28T2001. SPARES TO BE SHIPPED UNDRILLED. ALL SPEC ARE AN315-D6-8 } UNLESS NOTED ALL WASHERS ARE AN960-D6 }

-57 SAME AS -4 EXCEPT LESS -14
-58 SAME AS -5 EXCEPT LESS -15
-59 SAME AS -24 EXCEPT SHORTER

HEAT TREAT ALL 2850-CLAD A PARTS AFTER FORM TO 2851 CLAD T PARTS WHEN SPEC SR53A.

FINISH CODE

NOTE: SPOT DRILL -34-38 TO 6-6.7 AND -38 & -39 TO -10 & -11 & -18 & -20-11 & 28T1006-38 TO -6-7 FOR ALL SUBASSEMBLY PARTS, EQUIPMENT ADJOINING SURFACES BEFORE ATTACHING WITH HALCALOCK

* THESE PARTS USED ON :- PBY-5 SHIPS #1-30 & #60-66 INCL. (0842-0871) INCL & (0901-0907) INCL & PBY-6 ALL.

-100	PBY-5B	28T5001
-100	PBY-5A	28T5001
-108	28-5 (ALL)	28T5001
-108	PBY-5	28T5001
-10	PBY-6	28T5001
-6	CONSOL	28T1001
-10	PBY-5	28T5001
-10	PBY-5	28T5001

1	AN425-D3	11					

AC364DF832							
	3						
	21						
28T1026-11							
PARTS ON -57 ASSY							
AC364DF832							
	34						
	9						
	1						
	21						
28T1026-10							
PARTS ON -58 ASSY							
AN960D10							
28T1084-38							
	-34						
	-25						
	-5						
	-30						
28T2026							
PARTS ON -5 ASSY							
	-36						
	-35						
	-31						
	-32						
28T2026-3							
PARTS ON -39 ASSY							

	-37	1					
	-36	1					
	-70	2					
	-28	2					
	-27	1					
28T2001-33		2					
PARTS ON -36 ASSY							
AC364DF832		3					
	-13	1					
	-39	1					
	-5	1					
	-11	1					
	-15	1					
28T2026-11		1					
PARTS ON -38 ASSY							
AC364DF832		3					
	-32	1					
	-39	1					
	-22	1					
	-21	1					
	-16	1					
STC 1050		1					
AC364DF832		1					
	-34	1					
28T1026-38		1					
	-35	1					
	-29	1					
	-20	1					
	-21	1					
28T2026-9		1					
PARTS ON -5 ASSY							

GR (WHITE)		5					
ALUMINUM		3					

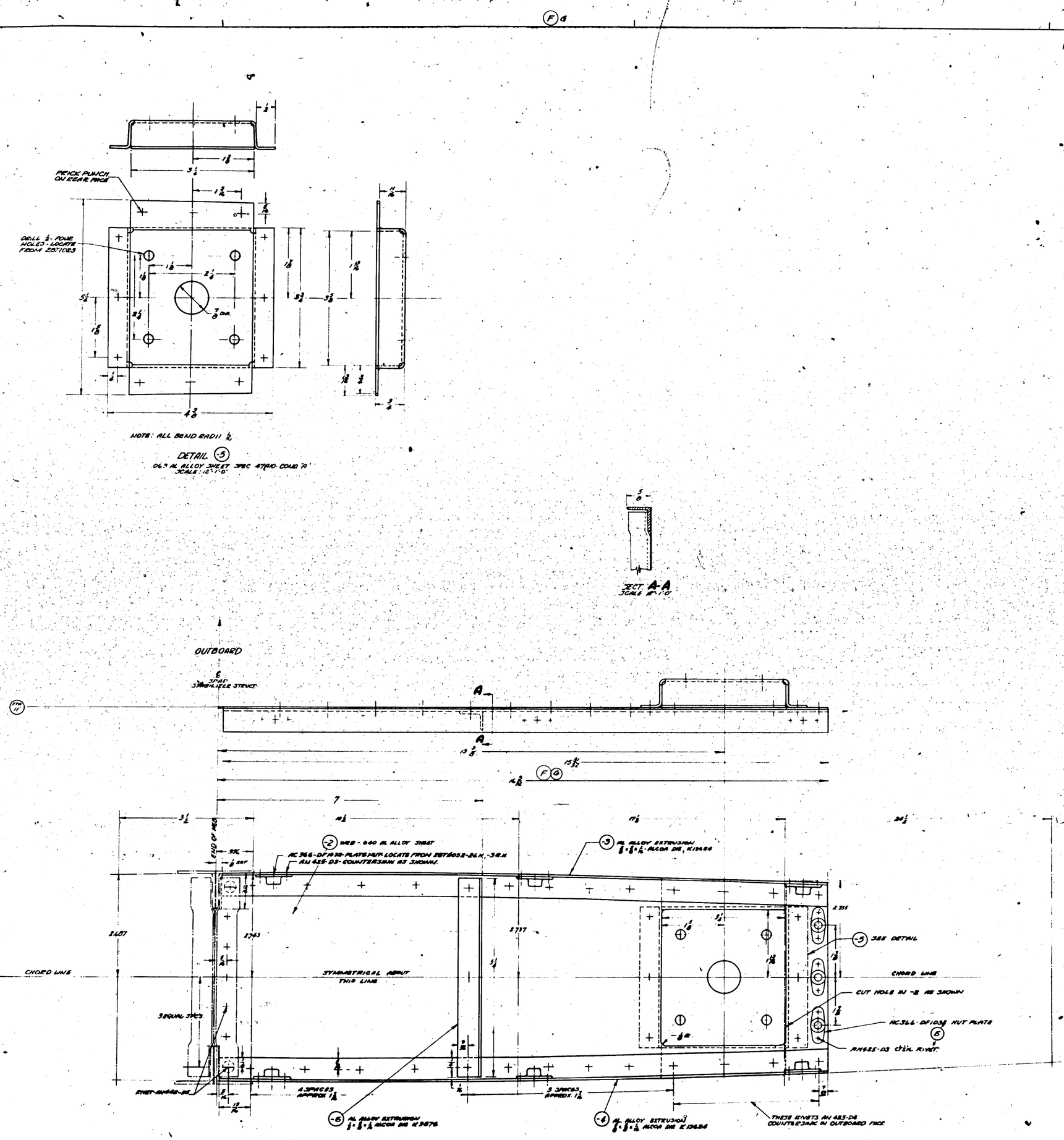
SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
D	TRACED	10-17	
E	C06791	4-5-17	
F	CO.7258	6-7-38	
G	CANCELLED		

NOTE: ALL BEND RADII 1/2

DETAIL (5)
06.3 AL ALLOY SHEET SPEC 47A10 COND T3
SCALE: 12" = 1'-0"

SECT A-A
SCALE 6" = 1'-0"

OUTBOARD



NOTE:
ALL RIVETS AN 442-D4 EXCEPT AS NOTED.
THIS ASSEMBLY TO FIT INBOARD ENDS OF 2871068-2 L.H.-3 R.H.

FINISH CODE	
Z	ANODIC TREATMENT
P	P-77 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

PBY-5A	2871061		
PBY-5	2871061		
PBY-4	2871061-1		
PBY-4	2871061		
PBY-3	2871061-1	AN 442-D4	23
PBY-3	2871061	AN 425-D4	8
PBY-2	2871061-1	AN 425-D3	48
PBY-2	2871061	AC 366 DF 1038	9

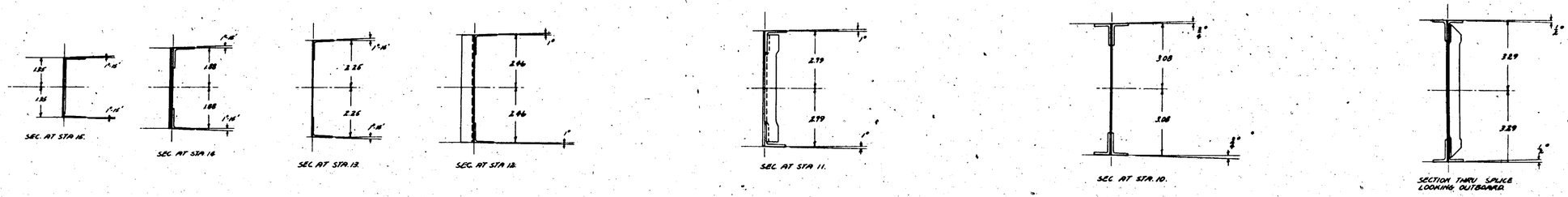
REPLACES										
REPLACED BY										
UNLESS OTHERWISE SPECIFIED: LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ± 1/64										
SCALE 6" = 1'-0"	REQUIREMENTS PER AIRPLANE							PARTS LIST PER ASSY		
AC										
NAVY NOTED	NOTED		NOTED		5-5-2 ANA					
MATERIAL	SPEC.		HEAT TREAT		FINISH			DRAFT	CHECK	STRESS

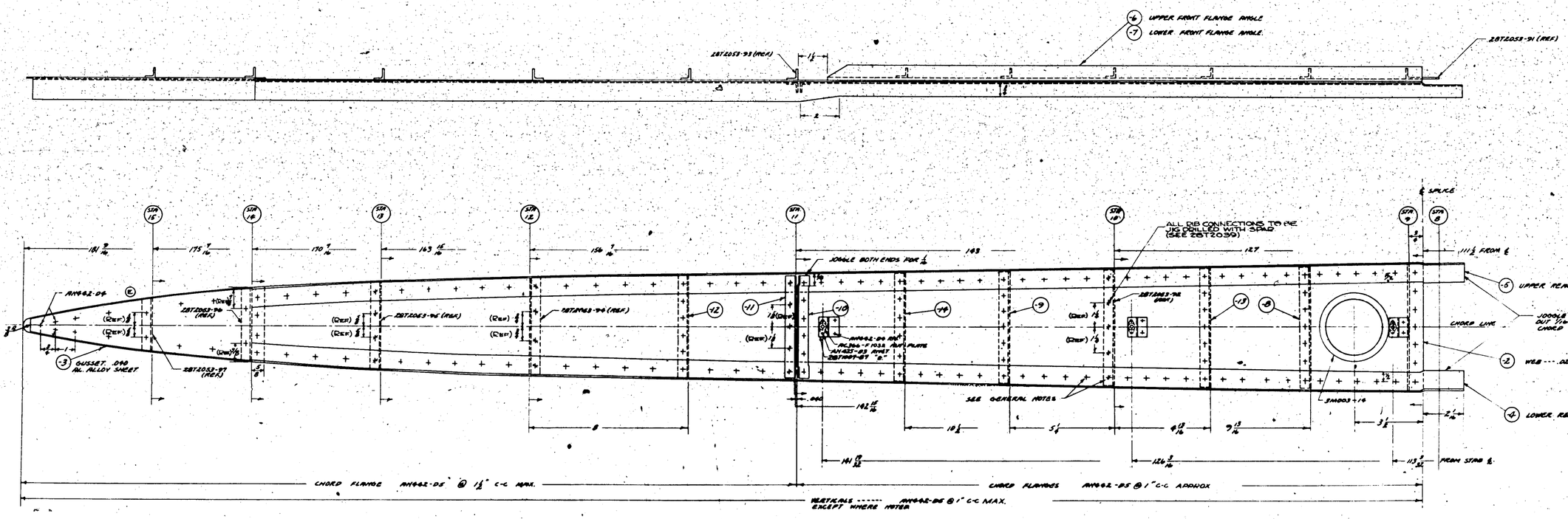
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME: ELEVATOR HINGE BRKT-STABILIZER STRUCT-OUTBD

DWG. NO. 2871035

H 477


SEC. AT STA 16.
SEC. AT STA 16
SEC. AT STA 13.
SEC. AT STA 12.
SEC. AT STA 11.
SEC. AT STA. 10.
SECTION THRU SPLICE LOOKING OUTBOARD

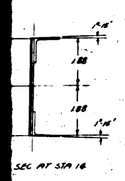

UPPER FRONT FLANGE ANGLE
LOWER FRONT FLANGE ANGLE.
28T2053-93 (REF.)
28T2053-91 (REF.)
ALL D6 CONNECTIONS TO BE JIG DRILLED WITH SPAD (SEE 28T2039)
JOGGLE BOTH ENDS FOR
SPLICE
UPPER REAR FLANGE ANGLE
JOGGLE REAR FLANGE ANGLE OUT 1/16 AND UPAGLE 1/16 TOWARD CHORD LINE.
CHORD LINE
WEB ---.020 AL ALLOY SHEET
LOWER REAR FLANGE ANGLE
GUSSET .040 AL ALLOY SHEET
SEE GENERAL NOTES
CHORD FLANGE AN442-05 @ 1" C-C MAX.
CHORD FLANGES AN442-05 @ 1" C-C APPROX
VERTICALS ----- AN442-06 @ 1" C-C MAX. EXCEPT WHERE NOTED

H 478

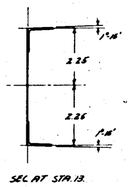
D	MARKED ADVICED	
E	ADDED PER NOTE TO DWG AT STNS. 10 11 12, 13 14 & 15. ADDED 3 IN NOTE AT STA 10	
	DIM AT ASSEMBLY PER NOTE	
F	REMOVED AC366-DP1061-5 ADDED AC456-P1033	
G	CHANGED BUSHING NOTE	

E.O. 25817-A

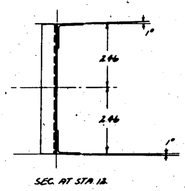
E.O. 25944



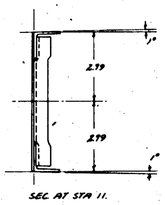
SEC. AT STA 16.



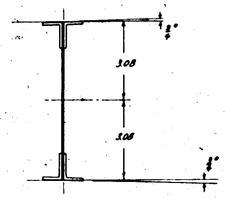
SEC. AT STA 13.



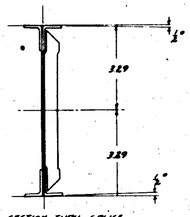
SEC. AT STA 12.



SEC. AT STA 11.



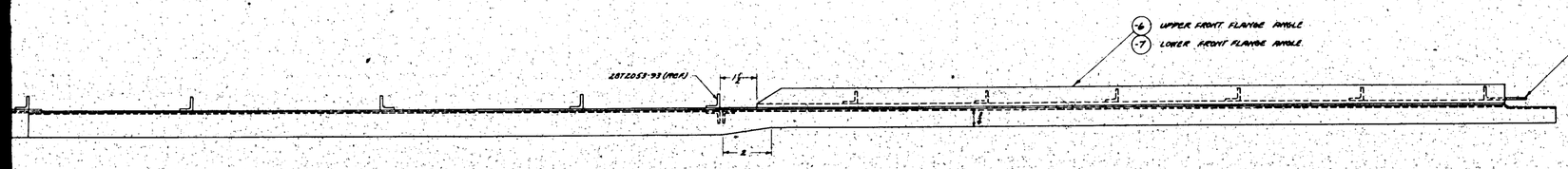
SEC. AT STA 10.

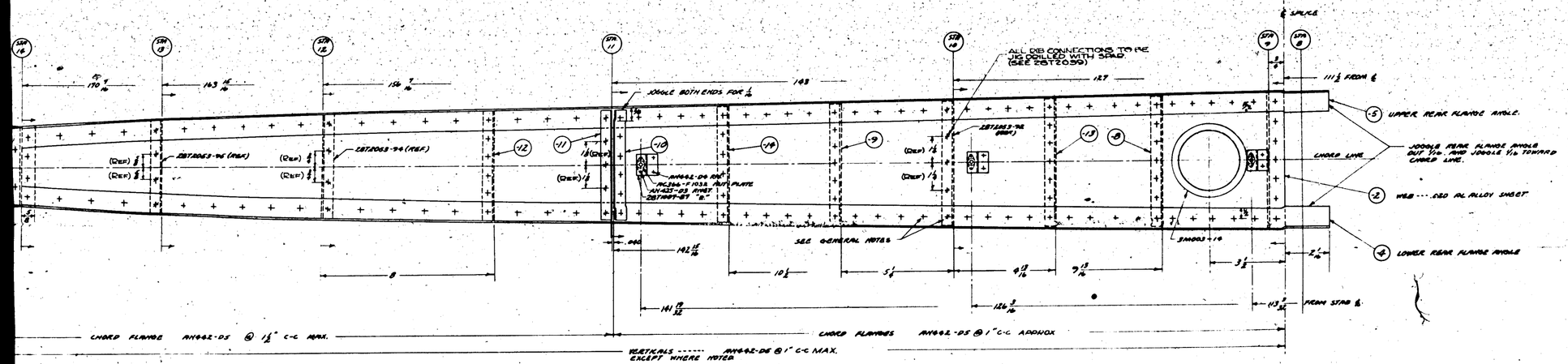


SECTION THRU SPLICE LOOKING OUTBOARD

WEB MEMBER SIZES

PART NO.	SECTION	ME NO
4	1 x 1 x 3/16	AC-78-J
5	1 x 1 x 1/16	AC-78-J
6	1 x 3/4 x .070	AC-1288
7	1 x 3/4 x .070	AC-1288
8	3/4 x 3/4 x .040	AC-6240
9	3/4 x 3/4 x .040	AC-6240
10	3/4 x 3/4 x .060	AC-6260
11	3/4 x 3/4 x .090	AC-6260
12	3/4 x 3/4 x .090	AC-6260
13	3/4 x 3/4 x .040	AC-6240
14	3/4 x 3/4 x .040	AC-6240





NOTE:
1. USE NUMBER OF RIVETS SHOWN IN EACH MEMBER, SPACING RIVETS EVENLY BETWEEN LIMITS WITH SPACING AS CALLED OR CLOSEST SMALLER SPACING.
2. TRIM ENDS OF OUTSTANDING LEGS OF WEB VERTICALS 45° AS SHOWN AT "THRU SPLICE" INBOARD OF AND NOT INCLUDING STA 11. ALSO JOGGLE VERTICAL MEMBERS OVER FLANGE ANGLES.
3. AC366 NUT PLATES ARE ATTACHED TO FRONT FACE VERTICAL MEMBERS (TYP.)
4. L.H. SIDE SHOWN, LOOKING FORWARD.
5. + = 5/32 RIVETS. (E)
   * = AC366-3M1032 NUT PLATES, 2 AN426-D3 RIVET, AND AN520-D10-8 (TYP.)

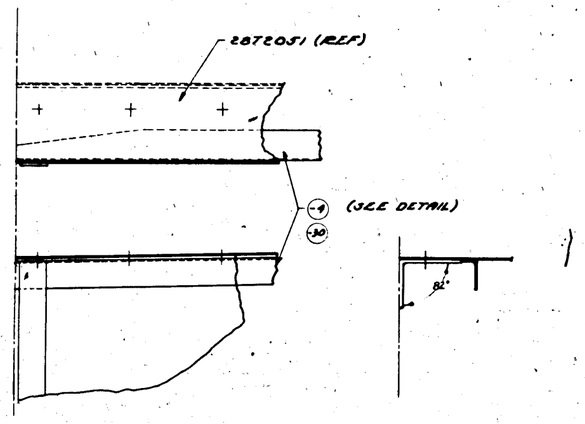
PBY-5A	28T2061	2
PBY-5B	28T2061	2
PBY-5	28T2034-1	1
PBY-5	28T2034	1
PBY-4	28T2036-1	1
PBY-4	28T2036	1
PBY-3	28T2037-1	1
PBY-3	28T2037	1
PBY-2	28T2040-1	1
PBY-2	28T2040	1

28T1007-87	3	
28T2039-11	1	
-13	1	
-12	1	
-11	1	
-10	1	
-9	1	
-8	1	
-7	1	
-6	1	
-5	1	
-4	1	
-3	1	
-2	1	
-1	1	

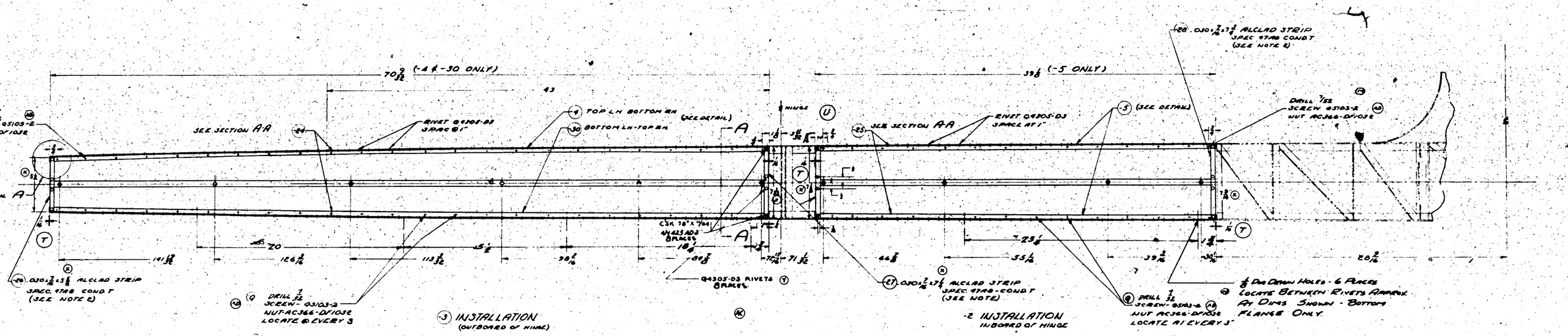
AN426-D3	6	
AN442-D4	9	
AN442-D5	2	28T2032-2

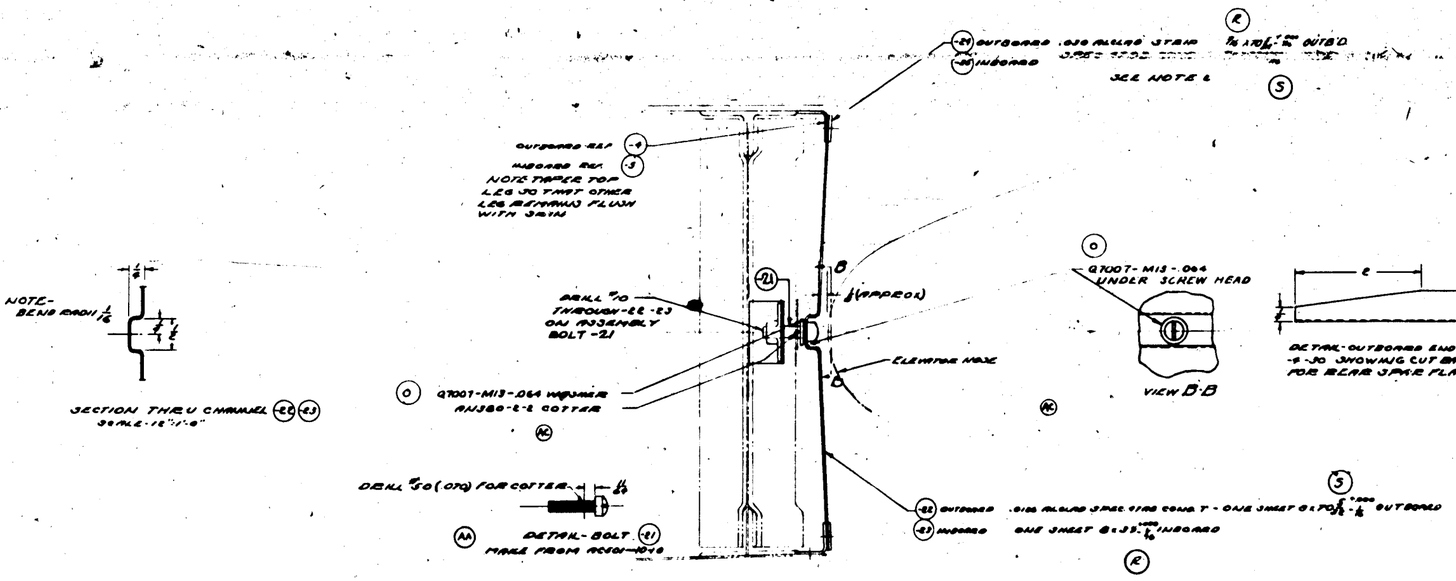
| | | |

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
L	TRACED	9-10-53	
M	ADDED TAP DRILL	10-26-53	
N	ADDED 6 NO 8 SCrew Holes	"	"
Q	ADDED Q7007-M13-064 (EQ'L TO AN960-D10L10 SH 6 LN & 10 RH REQ) TO REPLACE AN960-D10L10 SH 6 LN & 10 RH	"	"
	NOT CALLED OUT B/Ins	"	"
	ADDED TO DIM. AN960-L2 (10 LH & 10 RH REQ)	"	"
P	NEXT ASSEM. EDITORS	"	"
	WAS EOT/1005	"	1
Q	FOR DETAIL PARTS ADDED TO 2 PLACES (WHERE AN960-1 AND ACTUAL DIMS ARE CALLED OUT)	1-28-54	
R	CHANGED LENGTH OF -23 & -24 FROM 39 1/16 TO 39 7/16	"	"
S	CHANGED LENGTH OF -23 & -24 FROM 20 3/16 TO 20 5/16	"	"
T	ADDED DIMENSIONS & HOLES	"	"
U	CHANGED DIMENSIONS TO 5/16	"	"
V	CHANGED LIMITS -6-8-9-30 THAT WAS 26" & CHANGED MAT TO 2S-T WAS 2S2S	6-11-54	
W	CHANGED SPACING IN -2 FROM 4" WAS 4.25"	"	"
X	ADDED DIM. 5 1/16, 7 1/16 & 7 3/8 CHANGED -26 & 56 WAS 4 3/8 & -27, 7 1/8 WAS 7 1/2	11-8-54	SINGER
Y	ADDED (32) Q4305-03 RIVETS PER SHIP	11-8-54	SINGER
Z	ADDED (6) AN960-D8 WASHERS WITH (6) AVEX-AD-8 RIVETS	8-11-55	
AA	AC 501A-10-10 WAS AC 501A-10-16	4-17-61	
AB	MODELS ADDED		
AC	REPL. LOCKWIRE AC998-41-A (NOTE) (NOTE "WAS" -250) & HOLES ONLY		
AD	ADD NOTE 8, "MAKE FROM AC 501-10-10 (NEG. WT CHG.)		



DETAIL A
SCALE-12"=1'-0"





NOTE-
2 SPOT WELD -24 -25 -26 -27 -28 -29 -22 -23 AT 1" SPACES (APPROX)

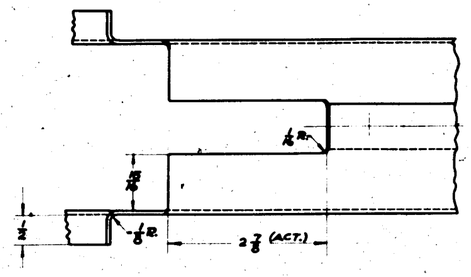
1 FINISH ALL METAL PARTS 2-F-GRAY

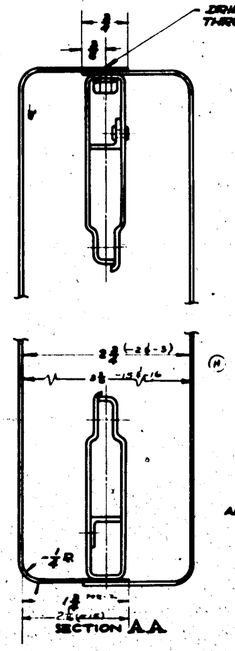
								-5	10
								-30	1
								-27	2
								-26	1
								-25	2
								-24	2
								-29	2
								-28	1
								-22	1
								-4	1
								-9	1
								-2	1
								-3	1

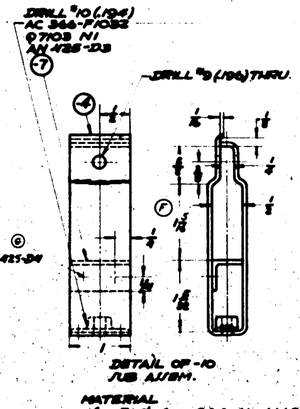
LET	ALTERATION	DATE	BY
B	TRACED	2-20-41	
C	ADDED NOTE TO DWG. & CHANGED DIRECTION OF LAP JOINTS IN SEC. A-A	10-15-41	
D	ADDED CUTOUT TO HOUSING & BUMP -- AN3-4A WAS AN520-6-18 -- REMOVED AC366F1032 (1)	11-15-41	
E	RELOCATED -7 ANGLE & ADDED NOTE -- 5/16 WAS 1 1/16	12-19-41	
F	CHANGE DIM TO 1 5/16 WAS 1 1/4	5-1-42	
G	CHANGED S-D-NUMBERS ON DETAILS & ECN 4414	5-12-42	
H	CREATED -18 & -19 S-13 ASSY. ADDED DIM. 3 5/8 (-18 & -19) & 2 1/16 (-15) CREATED -17 ASSY. R.P.C. WORK 8-3-42		

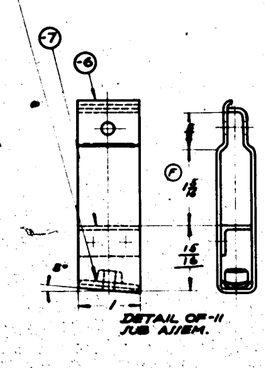
NORTHROP E.O. 3319
REVISED SIZE

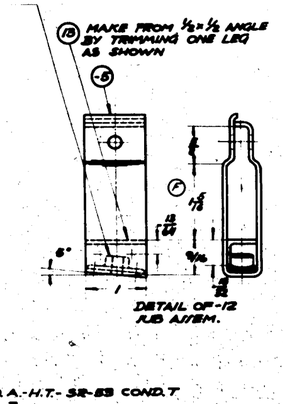
SP. 480-454-A

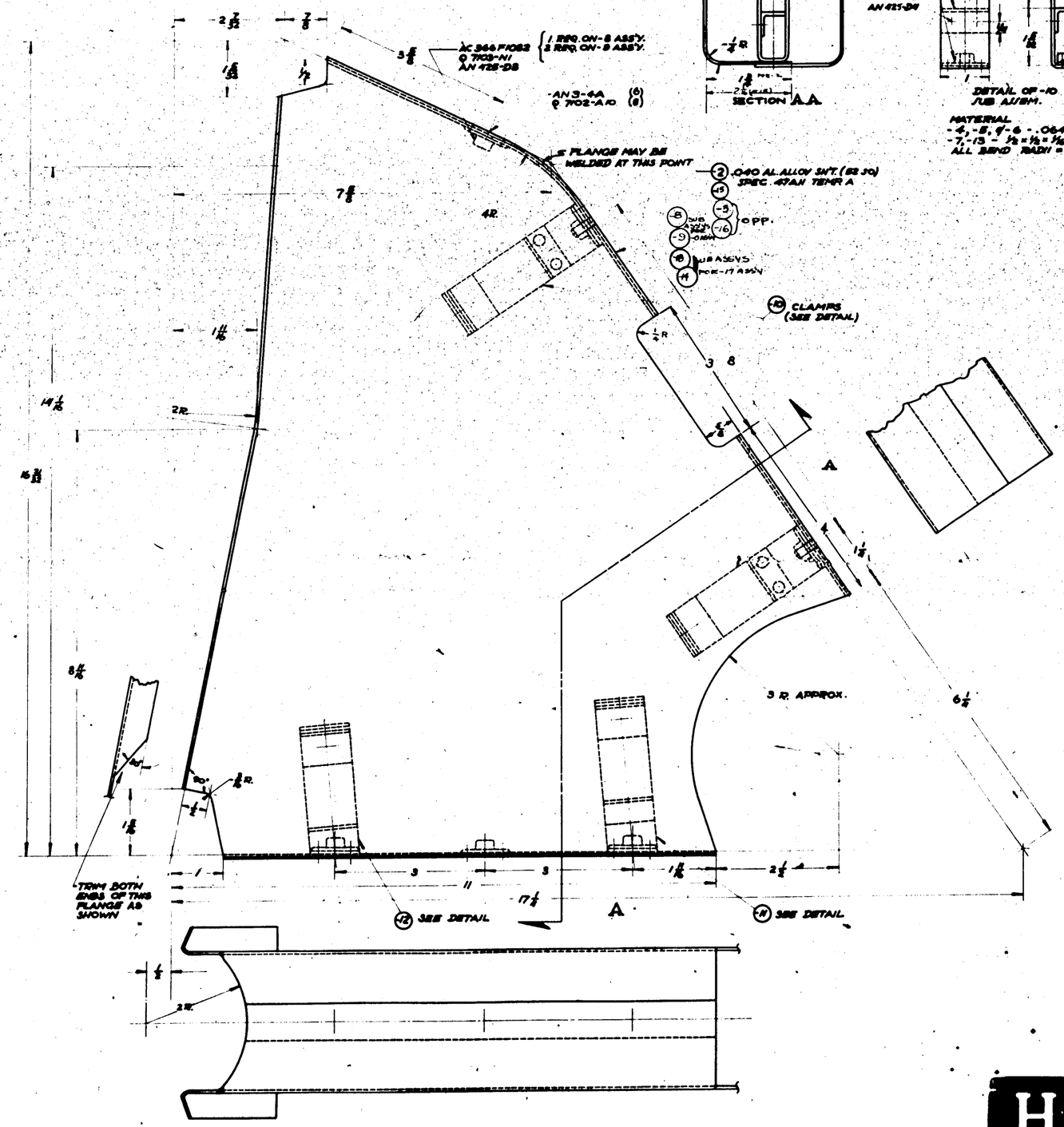












MATERIAL
-4, -5, & -6 - .064 AL. ALLOY SHEET (24S0) SPEC. 47A10, COND. A - H.T. - 32-SS COND. T
-7, -13 - 1/2 x 1/2 x 1/16 ANGLE, DIE #78-P (24ST) SPEC. 46A9, COND. T.
ALL BEND RADII = 1/8

NOTE:-
ON PARTS -11 ALREADY DRILLED AT OLD LOCATION, MOVE -7 TO OPPOSITE SIDE OF -11, RELOCATE & RIVET IN PLACE, FILL OLD HOLES WITH 1/8 DIA. RIVET. (2 REQ)

NOTE:-
-10, -11, & -12 CLAMPS ARE NOT TO BE RIVETED TO -2 & -3 HOUSING

FINISH NOTE:-
1) FINISH AL. ALLOY PARTS 2-P-2 & -4 BEFORE ASSEMBLING STEEL ANCHOR NUTS. TOUCH UP AFTER ASSY.

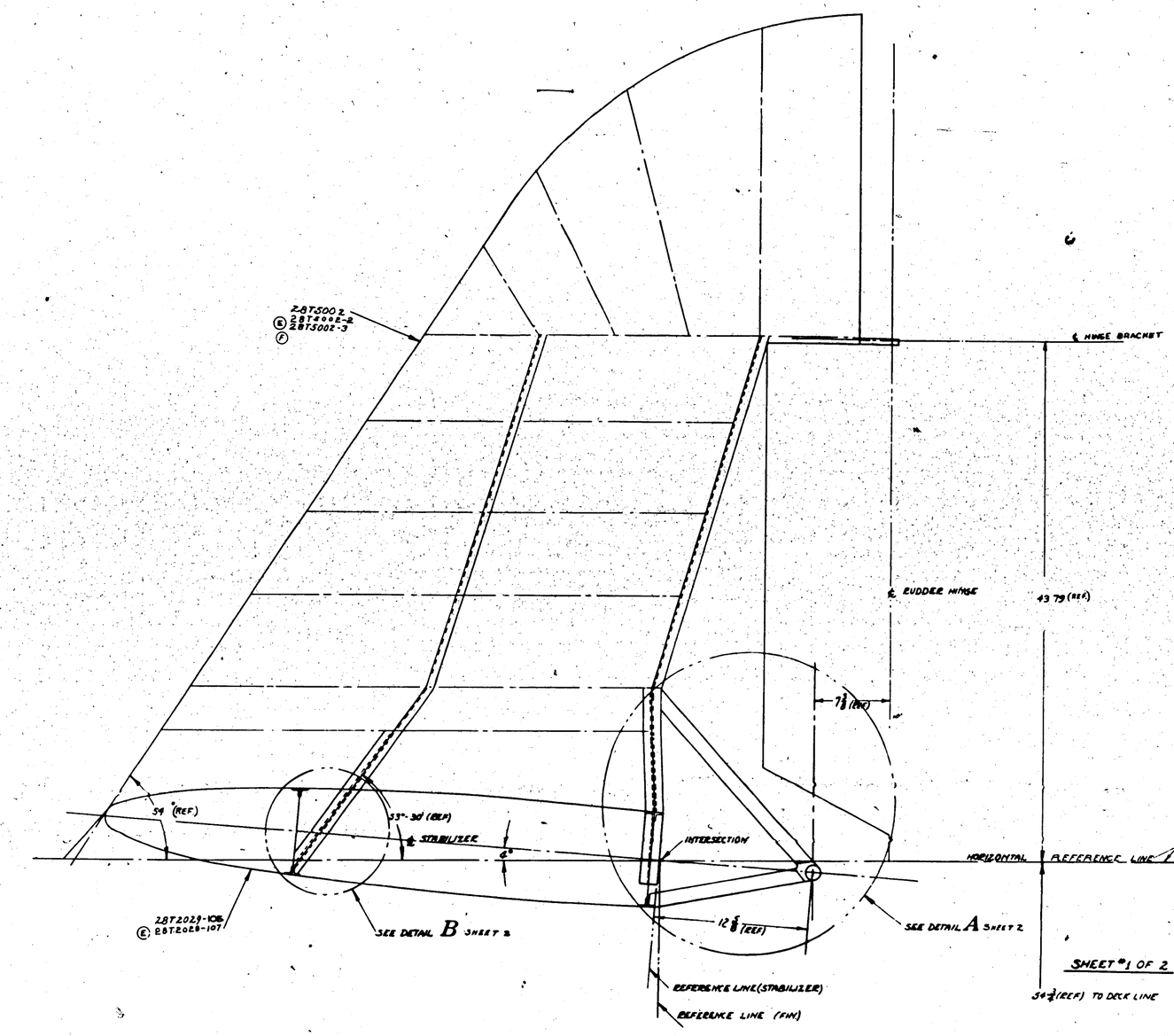
AN425-D3	8
Q7103-N1	1
AC366F1032	1
-10	1
PARTS ON -4 SUB ASSY	
AN425-D3	6
Q7103-N1	1
AC366F1032	1
-13	1
PARTS ON -6 SUB ASSY	
AN425-D3	6
Q7103-N1	1
AC366F1032	1
-11	1
PARTS ON -5 SUB ASSY	
Q7103-N1	1
(C) AN425-D4	8
AN425-D3	3
AC366F1032	1
-13	1
-8	1
PARTS ON -12 SUB ASSY	
Q7103-N1	1
(C) AN425-D4	8
AN425-D3	3
AC366F1032	1
-7	1
-6	1
PARTS ON -11 SUB ASSY.	
Q7103-N1	1
(C) AN425-D4	8
AN425-D3	3
AC366F1032	1
-7	1
-5	1
PARTS ON -10 SUB ASSY.	
AN425-D3	8
Q7103-N1	1
AC366F1032	1
-10	1
PARTS ON -9 SUB ASSY.	
Q7103-N10	2

-17	P8Y-5B	28T5001	1		
-17	P8Y-5A		1		
-17	P8Y-5		1		
-0	28-5 AM H	28T5001	1		
-0	P8Y-5B	28T5001	1		
-0	28-5 MC	28T5001	1		
-0	P8Y-5A		1		
-0	28-5 MH		1		
-0	28-5 MC		1		
-0	28-5 MA		1		
-0	P8Y-5		1		
-0	P8Y-9	28T5001	1	AN3-4A	6

| | | | | |

MAT	ALTERNATES	DATE	BY
A	BATTLESHIP-USE WAS ALTERNATE ON ALL SHIPS		
B	ALL SHIPS EXCEPT PBY-5 AND PBY-5A		
C	ALL PBY-5 AND PBY-5A SHIPS		
D	ALL SHIPS EXCEPT PBY-5 AND PBY-5A		
E	ALL SHIPS EXCEPT PBY-5 AND PBY-5A		
F	ALL PBY-5 AND PBY-5A SHIPS		

MAT	ALTERNATES	DATE	BY



SHEET #1 OF 2

FINISH NOTE:
AFTER ASSEMBLY
1. CLEAN, AND TOUCH UP WITH PRIMER
2. FINISH WITH 2 GREEN PRIME

ALL PBY'S TO CONT. 08676, SHIP #52
ALL PBY 5370 CONT. 9076, SHIP #69
PBY-5A CONT. 08676, SHIP #53 TO M.C.A. (1939)
PBY-5 CONT. 9076, SHIP #30 TO M.C.A. 83-5

PBY-5 M.C.A. 23-5 & ON
PBY-5A M.C.A. 178-14 & ON

PART NO.	QTY	MATERIAL	SPEC	-0 REQ	-2 REQ	-3 REQ	-4 REQ	-5 REQ
28T5001-0								
28T5002-3								
AN515-832R8				11	11	11	11	11
AN960-8				1	1	1	1	1
AN960-8L				1	1	1	1	1
AN525-7R8				1	1	1	1	1
AC365-1032				28	28	28	28	28
AN442-10D								
AN455-0D								
AN456-0D								
AN525-0D								
AN933-0D								
AN960-10								
P-1070-1				2	2	2	2	2
P-1070-2				1	1	1	1	1
3/8 SHANK PROOF LOCK WASHER				8	8	8	8	8
#8 SELF TAPPING SCREW x ½				16	16	16	16	16
QS703-5				8	8	8	8	8
QS703-9								
QS805-04								
QS805-05								
QS932-04				8	8	8	8	8
QS207-6				11	11	11	11	11
ALTERNATES OUTLINED								
28T4002-2				1	1	1	1	1
-10				1	1	1	1	1
-11				1	1	1	1	1
-12				1	1	1	1	1
-13				1	1	1	1	1
-14				1	1	1	1	1
-15				1	1	1	1	1
-16				1	1	1	1	1
-17				1	1	1	1	1
28T4003-1				1	1	1	1	1
28T5001-7				1	1	1	1	1
28T5001-8				1	1	1	1	1

PBY-5A TO M.C.A. 178-14
PBY-5 TO M.C.A. 83-5

28-gauge	28T5001							
28-gauge	28T5001							
28-gauge	28T5001							
28-gauge	28T5001							
28-gauge	28T5001							
28-gauge	28T5001							
28-gauge	28T5001							
28-gauge	28T5001							
28-gauge	28T5001							

MODEL	PART NO.	NO.						
REQUIREMENTS PER AIRPLANE								
SUPPLY TO		CAL. NO.						
DEVELOPED BY		SHT. NO.						
SCALE: FULL	1/2	1/4						
PRINT POINT DIMENSIONS UNDING SHRINKS								

A.C.		1-17-41	
HEAT TREAT	NOTED	FINISH	NOTED

NAME ASSEMBLY — STABILIZER & FIN

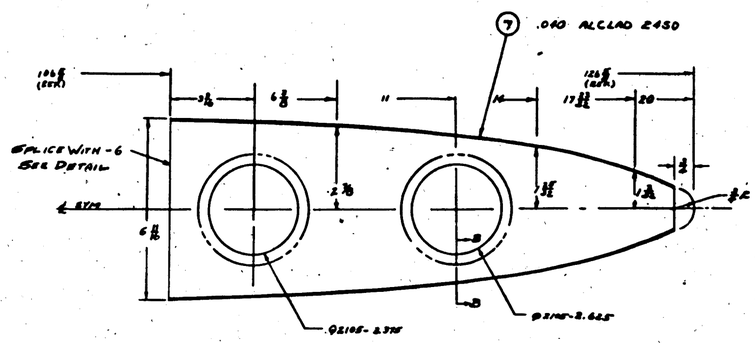
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

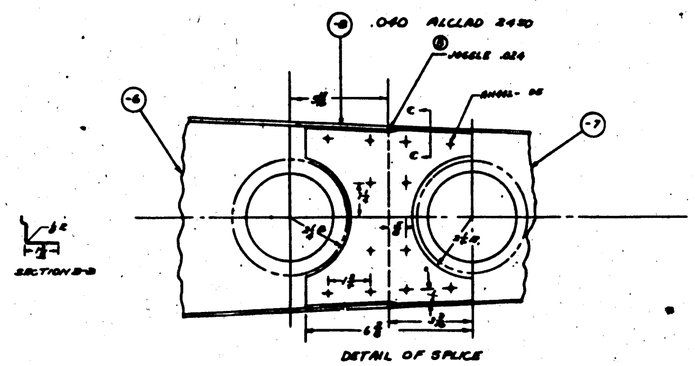
SIZE J | 28T5004 | SHT. NO. 1 OF 2

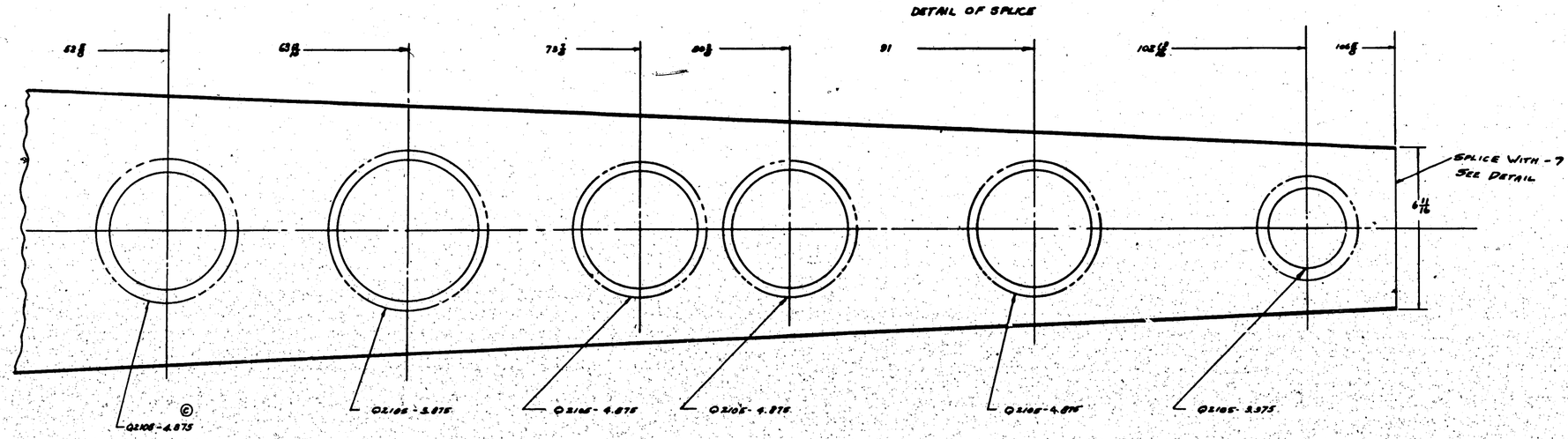
28T5004

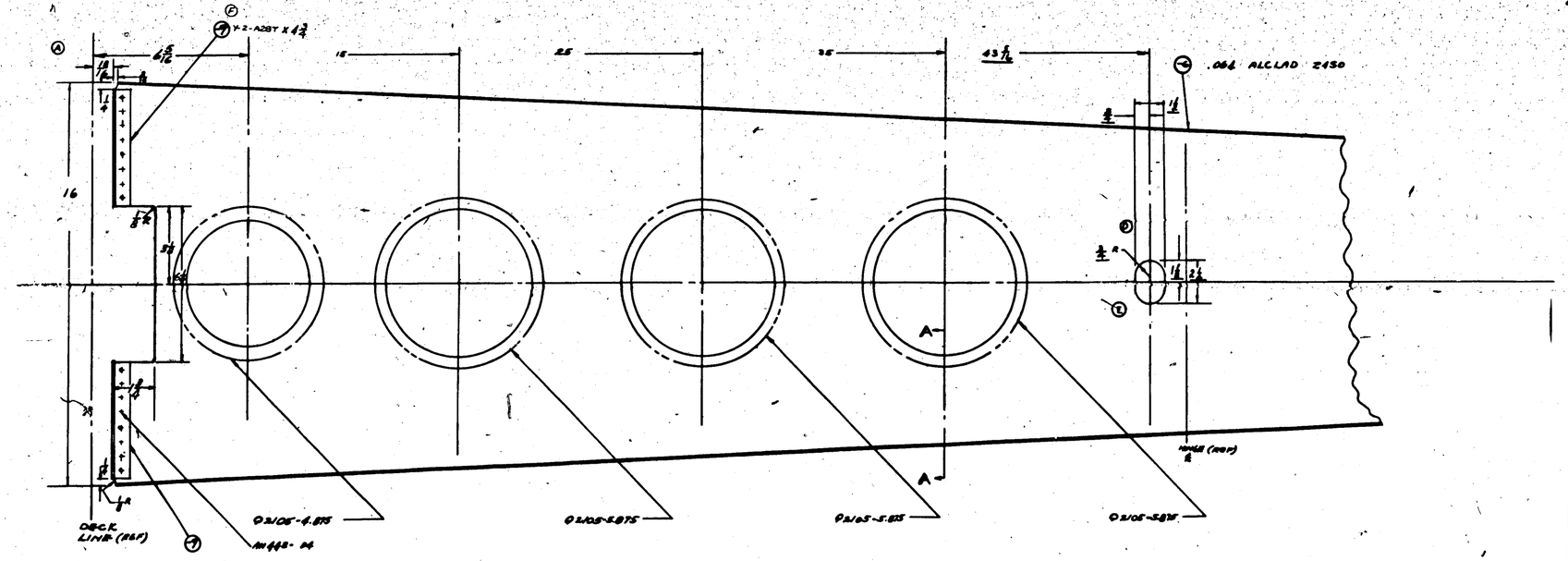
R

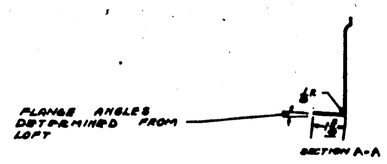
H 481











FINISH CODE	
Z	ANODIC TREATMENT
P	P-D Primer
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

SPAR RUDDER

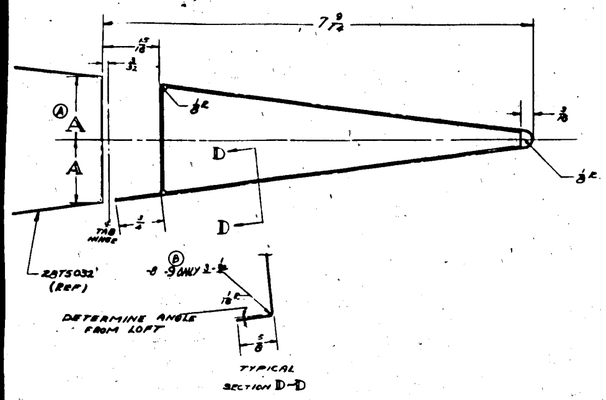
J 20T3007

H 482

LET	ALTERATION	DATE	BY

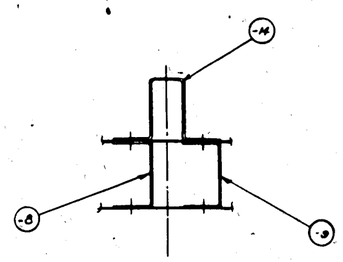
LET	ALTERATION	DATE	BY
A	CHG'D 'A' DIM AT STA 170 FROM [illegible]	[illegible]	[illegible]
B	CHG'D DIMS. AND ADD'D -17 & -18 RIBS	[illegible]	[illegible]
C	CHANGED MATERIAL SPECIFICATION	[illegible]	[illegible]
D	ADDED DETAIL OF AN851-2	[illegible]	[illegible]

PGY-7
20784
20871
20909
20950

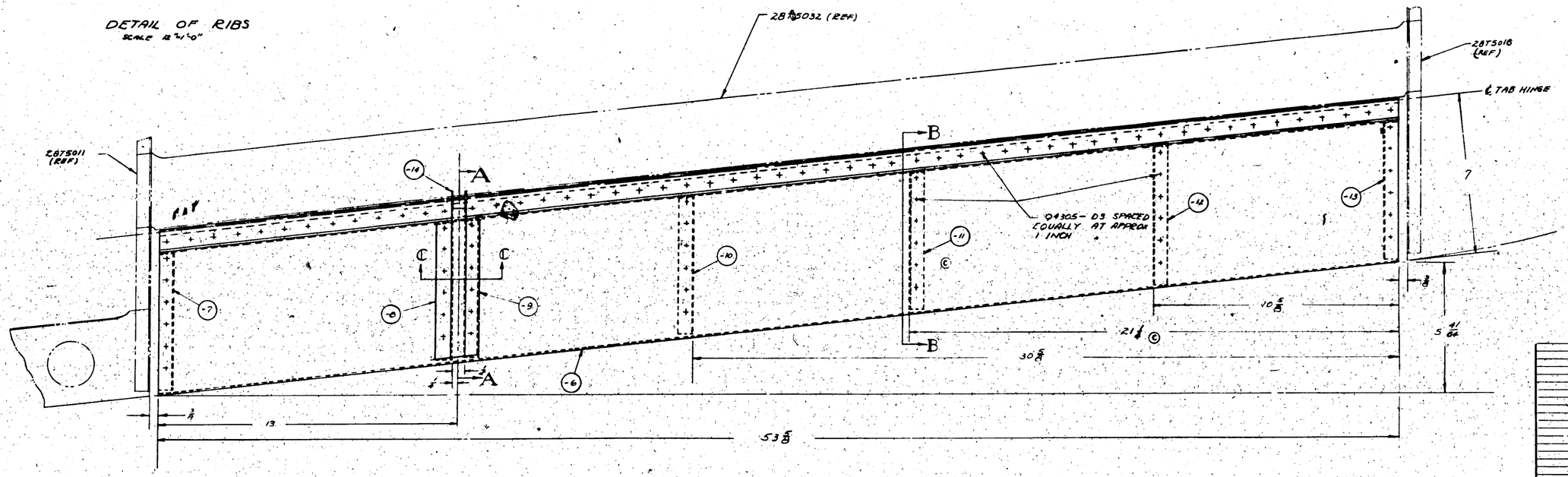


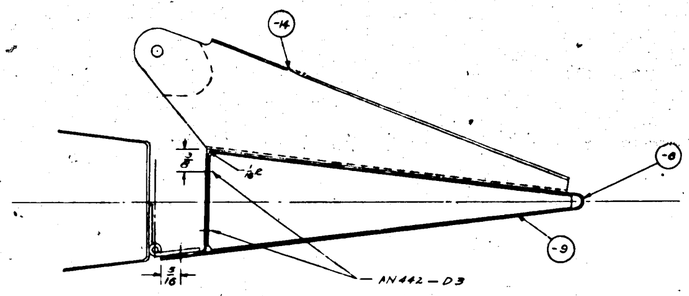
RIB	A
-7	15/32
-8	[illegible]
-9	21/32
-10	15/16
-11	25/64
-12	27/32
-13	29/32

DETAIL OF RIBS
SCALE 12"=1'-0"

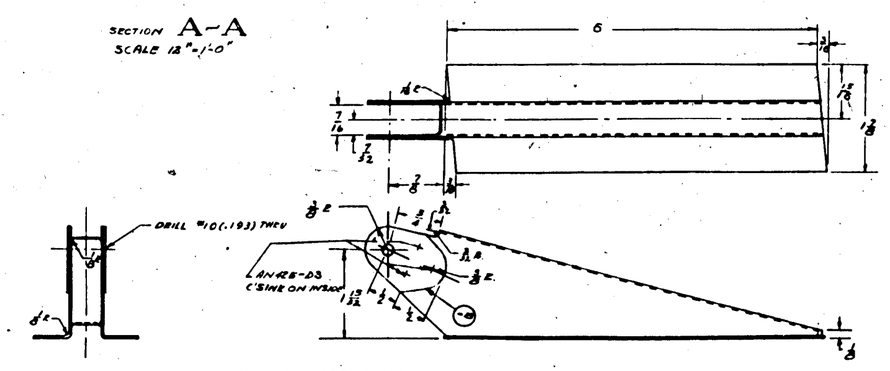


SECTION C-C
SCALE 12"=1'-0"

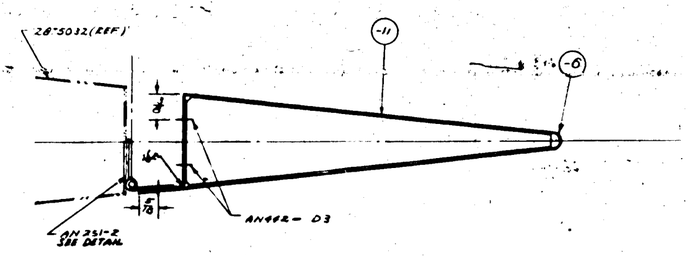




SECTION A-A
SCALE 12"=1'-0"

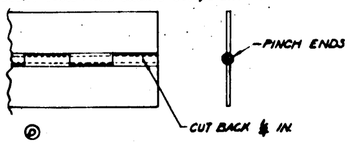


DETAIL OF HORN -14
SCALE 12"=1'-0"



SECTION B-B
SCALE 12"=1'-0"

ON TAB HINGE - CUT WIRE BACK 1/4 IN. PINCH END OF HINGE SLIGHTLY TO PREVENT WIRE FROM COMING OUT AS SHOWN



Ⓓ DETAIL AN251-2

FINISH NOTE:-
- 6: Z-P BOTH SIDES, 2AP INSIDE, AP OUTSIDE CONTACTING SURFACE.
- 7 TO -13 INCL.: Z-P-2AP.
- 14 AND -15: Z-P-AP.

FINAL EXTERIOR FINISH:- CLEAN AND TOUCH UP WITH PRIMER APPLY 2 [illegible] dP

} IN DETAIL

FINISH	CODE
Z	ANOD'C TREATMENT
P	P-37 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

AN615-D3
AN426-D3
AN960-D3

AN851-2-555

PART NO.	STOCK	MATERIAL	SPEC	-5	-12	-13	-14	-15
				QPA	QPA	QPA	QPA	QPA
-15	0.063 x 4 x 10	2247 ALC	47A8 T					2
-14	.040 x 4 x 10	2247 ALC	47A8					1
-18	.020 x 4 x 10							1
-17	.020 x 4 x 10							1
-16	.020 x 4 x 10							1
-11	.020 x 4 x 10							1
-10	.020 x 4 x 10							1
-9	.020 x 4 x 10							1
-8	.020 x 4 x 10							1
-7	.020 x 4 x 10							1
-6	.020 x 4 x 10	2247 ALC	47A8 T	1				

PARTS LIST FOR ASSY.

PART NO.	MODEL	NEXT ASSY.	QTY.
28T5003			1
28T5031			1
28T5006			1

REQUIREMENTS FOR AIRPLANE
DISPLACED
DISPLACED BY
SERIAL NO.
LIST OF STANDARD PARTS
SCALE 6"=1'-0"
NOTED
STORE PART NUMBER WHERE SHOWN

A-C
NEXT ASSY NONE
NEXT THDAY
NOTED
FINISH
DRAFT
APPROVED
CHK
ENG

NAME TAB ASS'Y - RUDDER
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.
SIZE J
DWG 28T5033
APP'D NONE

H 483

LET	ALTERATION	DATE
A	-7 L R (REQ) WAS -7 (REQ) ON DWG & B/M.	4-24-45 C.O. 2018
B	ANA 615-10 REPLACED WITH 28T5025-13.	8-24-45 C.O. 2018
C	-7 R (REQ) & 3/16 WAS K6401 ADDED to DIM. TO SECT. A-A.	10-15-45 C.O. 2018
D	REVISED and PLANS ALL PARTS AS THIS PLAN. CHG'D AN426-DD TO AD426-AD & AD426-AD TO AD426-DS WHERE REQ'D.	4-8-46 C.O. 2018
E	AN426-DD WAS AN423-DD, AN426-DS WAS AN423-DS	11-9-46 C.O. 2018
F	-11 PLATE FOR -6, REPLACED "K6401 11/2" AL ALLOY SHT. ASA8-T" WITH "Y-2-A27T x 11 1/2" & FOR -7L & -7R REPLACED "K76J x 3 3/4" AL ALLOY PLATE ASA8-T" WITH "Y-2-A46T x 3 3/4" WT. CHG. REQ.	4-30-46 C.O. 2018
G	ADDED LIGHTENING HOLE TREAT ON 28T5093 PART. NO WT. CHG.	8-12-46 C.O. 2018
H	INCR'D M FOR -6 REPLACED "Y-2-A27T x 11 1/2" WITH "NOTE 5" FOR -7 & -7R REPLACED "Y-2-A46T x 3 3/4" WITH "NOTE 6" TO MAT'L SPEC FOR -6 & -7 1/2 ADDED "NOTE 7" TO FACE ADDED MAT NOTE "4" & "5". WT. CHG. REQ.	10-15-46 C.O. 2018

SECTION C-C

SECTION B-B

SECTION D-D

SECTION A-A

MATERIAL NOTE
1. MAT FOR -6 MAY BE
(A) Y-2-A27T x 11 1/2, OD
(B) K5401 x 11 1/2, AL AL EXTR. SPEC QQ-A-354-T
2. MAT FOR -7 & -7R MAY BE
(A) Y-2-A46T x 3 3/4, OD
(B) K76J x 3 3/4, AL AL EXTR. SPEC QQ-A-354-T

H 484

+ = RIVETS (SIZE INDICATED BY INTERVALS BY THE FOLLOWING HARMONICS)
✦ = 1/8 ✦ = 5/32 ✳ = 3/16
⊕ = 1/4 ⊞ = 5/16 ⊛ = 3/8
$ = SPOTWELD

FINISH CODE	
A	ANODIC TREATMENT
P	KIT PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

16	MMW 28T5072	1	
15	SOMC		
14	SOMN		
13	ANC		
12	ANC		
11	MC		
10	MC		
9	28T5071	1	
8	28T5074	1	
7	28T5073	1	
6	28T5072	1	
5	28T5076	1	
4	28T5075	1	
3	28T5077	1	
2	28T5078	1	
1	MC		

REQUIREMENTS PER AIRPLANE — DRAWING NO. 28T5070
DELIVERED BY — DATE OF DELIVERY
STOCK PART NUMBER WHERE DELIVERED

PART NO.	SPECIFICATION	MATERIAL	SPECIFICATION	NO. REQ'D
-1	NOTED	NOTED	NOTED	1
-2	NOTED	NOTED	NOTED	1
-3	NOTED	NOTED	NOTED	1
-4	NOTED	NOTED	NOTED	1

PARTS LIST FOR ASSY.

| | | |

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY
A	28° WAS 26° AN442 AD5 WAS AD4, REF 3077 RELOCATED						
B	ADD'L VIEW						
C	BOLT TURNED UPSIDE DOWN	4-12-50	[illegible]				
D	REVISED 7 FROM APPROX (6-5-51)						
E	D/A PER WR 6496 WITH REVISED HOLES						
F	GTR CLEA WAS [illegible] NO W/CONT-18-9						

PBY-5 BuA 03166A

28-SMP+28-SME " 2nd 6/1/19
PBM-5 28-SME FAIRINGS 03356-1A 1st 03/161
EA BA 4291
EA BA 32320
Q

AN25-25 BOLT
47102-A516 WASHER (2)
AN320-5 NUT
AN380-C2-2 COTTER

28T5072
RUDDER HORN

7 EQUAL SPACES

28B1168-12 (REF)

LEAVE THESE TWO HOLES BLANK

AN442-AD5 RIVET

Q4305-D6 RIVETS

28T5077
RUDDER STOP

28T5076
HINGE BRACKET

6 EQUAL SPACES

3 EQUAL SPACES

ASSEMBLE TO FIN WITH ZINC CHROMATE COMPOUND IN ORDER TO FORM FILLET ALONG THIS SURFACE.

AT INSTALLATION
DRILL 9/16 - 3 HOLES FOR AN 28-11 BOLTS
LOCATE FROM 28B1206

28B1168 (REF)

Q4305-D6 RIVETS

-6 L

AN442-AD5 RIVET

28T5003 (REF.)

22° ±1° -0°

℄ HINGE

AN442-D4 RIVETS

AN442-D5 RIVETS

28T5086 (REF.)

Q4305-D6 RIVETS

2 B1168-12 (REF.)

28B1168 -12 REF

20 3/4 ± 1/16 (REF.)

PLAN VIEW

·NOTE·
"HOLES PRE-DRILLED DO NOT HAVE TO BE PLUGGED."

VIEW A-A

PART No	STOCK	MATERIAL	SPEC	LH REQ	LH REQ	LH REQ	LH REQ	LH REQ
				-0	-2	-3	-4	-8
28T5078-4	.064	24S	ALCLAD	0	0	0	0	1
28T5078-6	.064	24S	ALCLAD	1	1	1	1	0

PARTS LIST PER ASSY.

AN442AD5	28-5AmA 28T5001	1			
AN442-D4	28-5AAC 28T5001	1			
AN25-25	28-5mN 28T5001	1			
AN320-5	28-5mE 28T5001	1			
	28-5mC 28T5001	1	Q4305 AD5		
	28-5mA 28T5001	1	Q4305 AD5		
			Q7102 A516		
	PBY-5B 28T5001	1			
	PBY-5A 28T5001	1			
	PBY-6 28T5001	1	28T5077		
			28T5076		
			28T5072		

LINE No	MODEL	NEXT ASSY	QTY
1			

* REQUIREMENTS PER AIRPLANE

REPLACES
REPLACED BY
STAMP PART NUMBER WHERE SHOWN

SCALE	12"=1'-0"

FINISH CODE	
Z	ANODY TREATMENT
P	P 27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

GP GREEN PRIME

H 485

A C			3-14-42	14
NAVY NOMAR	-6v-7 2 P 2 GP	DRAWING	1	1
HEAT TREAT	FINISH	DRAFT	APPROVED	DATE

NAME INSTALLATION - RUDDER HINGE BRACKET - LOWER FIN

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J | DWG No 28T5078

LET	ALTERATION	DATE	BY
A	CUT TO ANCHOR NUTS ADDED		
	PLATE NUTS REMOVED FROM PART LIST		
B	AN4004A(8) WAS AN4004(6) AN4005 (8 REQ.)	2-28-44	
C	ADDED -9 BETWEEN PAT SYM. & PART NO. CHANGED # REQ'S FROM 1 TO 2 IN -3 ASSY	2-28-44	
D	ADDED AN960-516 (6 REQ.) AN7002-416 (8 REQ.) WAS CHGD AS SUFFICIENT NO. TO ELIMINATE BEARING ON THREADS	2-28-44	
E	IR 3/4, FIG. -6, REPLACED "ENGLISH" WITH "AERO PRODUCTS" WITH "AERO" IR 3/8, FIG. -7, REPLACED "ENGLISH" WITH "AERO" PART NOS. AS PER "SUPERSEDES" IN "THIS DRAWING OF RUDDER (SET. CONS. DWG.)	4-22-44	

E.O. 32125 MATERIAL NO. 540
REVS A-2405-M

PART-5 ADDED PER 28-5196 28-5196 E.O. 1706

AN23-24
AN320-3
AN320-2-2

AN4004-A

28T5095

AN4-004-A
ANEBONE WASHER (8 REQ.)
CHGD MAT'L WASHER (8 REQ.)
REQ'S ARE PER AIRPLANE

AN442-04

AN425-03
EQUALLY SPACED AT APPROX 1 IN.

AN442-04 EQUALLY SPACED AT APPROX 1 IN.

28T5007 (REF.)

28T5037-6 (REF.)

AN425-03

28T5020 (REF.)

-8 1/32 NEOPRENE GASKET

SECTION B-B
SCALE 24" = 1'-0"

AC366-0418

G4305-04 EQUALLY SPACED AT APPROX 1 IN.

28T5098

28T5097-7

28T5020 (REF.)

28T5040

28T2060

28T1031

28T1036

28T5111

28T5097-6

28T5031 (REF.)

HINGE LINE (REF.)

SPAR (REF.)

-7

-9 1/32 NEOPRENE GASKET

AN442-04

28T5009 (REF.)

28T5008 (REF.)

DECK LINE (REF.)

SECTION A-A

FINISH CODE	
A	ANODIC TREATMENT
B	2-T PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

G4305-04									
AN442-04									
AN425-03									
AN320-2-2									
AN320-3									
AN23-24									
AC366-0418									
AN4-004-A									
QQ-A-200/8									
AN960-416									
28T5095									
28T5098									
28T5097-6									
28T5040									
28T2030									
28T1036									
28T1031									
28T5111									
28T5097-7									
-9	28 SPEC. RUBBER (28T2001 STA)								
-7	28 STAINLESS (28T5091 STA)								
-6	28 SPEC. RUBBER (SPEC 18)								
-5	PER SPEC (18 27500) STA								
-4	PER SPEC 28T5006 (18)								
-3	PER SPEC 28T5096 (18)								
-2	MODEL								
-1	PART NO.								
	REQUIREMENTS PER AIRPLANE								
	REPLACED								
	REPLACED BY								
	SCALE 12"=1'-0" 4 NOTED								
	STAMP PART NUMBER MARKING DRAWING								

-9	1/32 x 2 1/4 x 5	NEOPRENE	N-11						
-8	1/32 x 5 1/2 x 6 1/2	NEOPRENE	N-11						
-7	1/2 x ASTEX 618								
-6	1/2 x ASTEX 618								
	PART No.	STOCK	MATERIAL	SPEC					
	PARTS LIST PER ASSY				-0	-2	-3	-4	-5
					REQ	REQ	REQ	REQ	REQ

A.C.
HEAT TREAT: NONE
FINISH: 4-T-2-A-200 W
MATERIAL
GROUP | WEIGHT | SHEET | SIZE

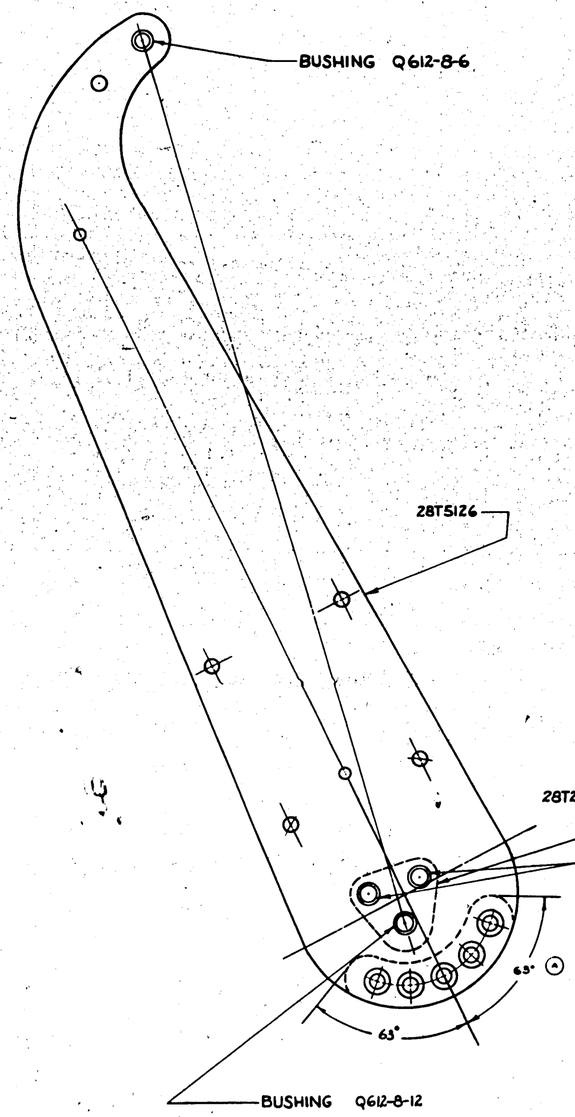
Name: INSTALLATION-RUDDER LOWER HINGE
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.
SIZE: J
DWG NO. 28T5096

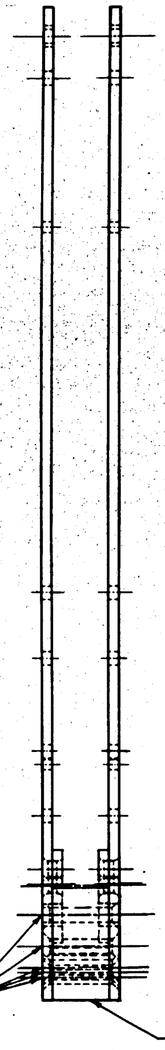
H 486

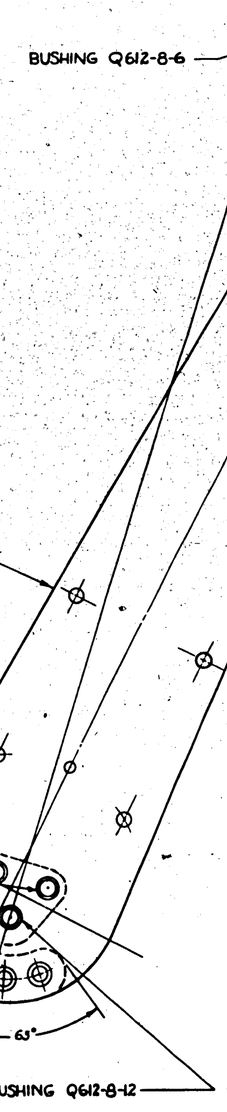
R

LTR	ALTERATION	DATE	BY

LTR	ALTERATION	DATE	BY
A	PER ENG. O.R. NO. [illegible]		





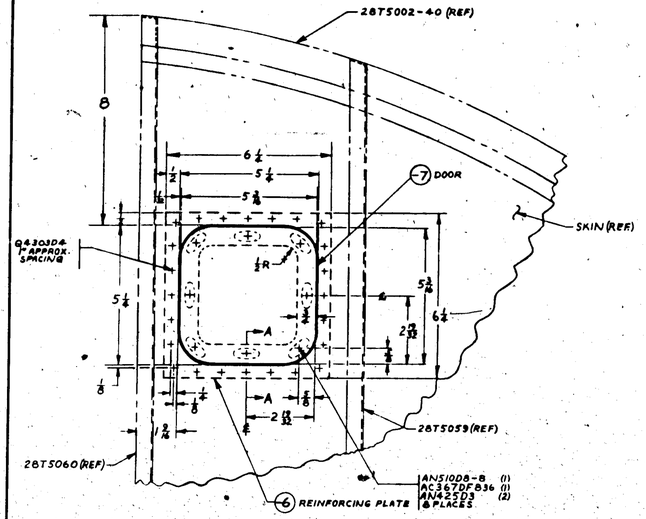


PART NO.	STOCK	MATERIAL	SPEC.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.	LH REQ.	RH REQ.
PARTS LIST FOR ASSY.				-0	-2	-3	-4	-5			
28T5121											
28T5126-R											
28T2036-3											
28T2036-6											
28T5124											
AN 515-8-8				2	2						
AN 515-8-12						2	2				
Q4303-D6				2	2						
Q4303-D8				5	5						

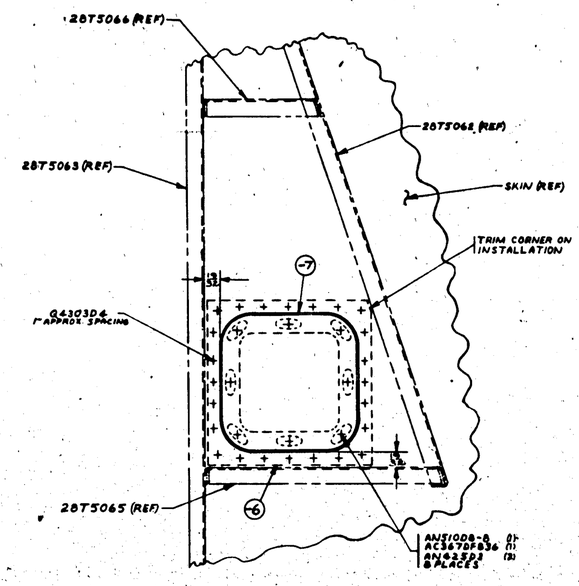
QUANTITY	NONE	NONE	
WEIGHT	FINISH		
NAME	HORN SUB-ASSEMBLY ELEVATOR INSTALLATION	SIZE	J
	CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.	DWG NO.	28T5125

H 487

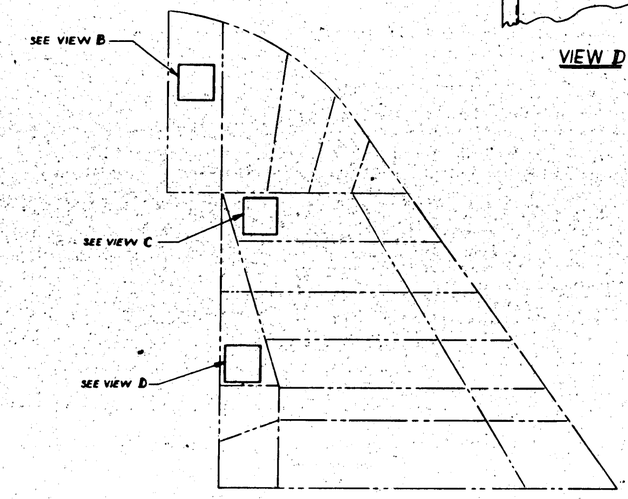
R



VIEW B

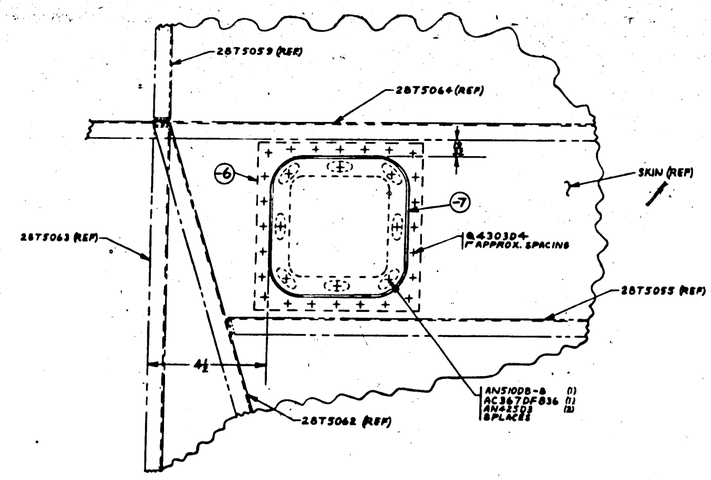


VIEW D

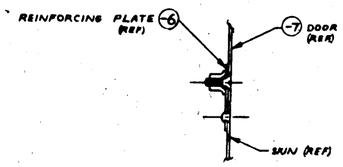


SIDE VIEW OF UPPER FIN
SHOWING APPROX. LOCATIONS OF ACCESS DOORS

FWD



VIEW C



VIEW A-A
SCALE 12"=1'-0"

FINISH CODE
A ANODIC TREATMENT
P PRIMER
P' ZINC CHROMATE PRIMER
C CADMIUM PLATE

GP GREEN PRIME

LOT	ALTERATIONS	DATE	BY

LOT	ALTERATIONS	DATE	BY

MC"B"

APPROVED FOR TOOLING BY R.B. Humphreys 1-19-42

| | | |

SECTION E-E

SECTION C-C

SECTION D-D

SECTION B-B

SECTION F-F

SECTION H-H

CROSS SECTION OF -7 1/2 SCALE: 12"=1'0"

DETAIL -18 12"=1'0"

SECTION J-J

DETAIL -15 12"=1'0"

SECTION K-K

NOTE:- INSTALLATION TO BE MADE WITH TEMPLATE OR ARMOR PLATE OF MAXIMUM TOLERANCE-ARMOR PLATE INSTALLATIONS WITH LESS TOLERANCE TO BE SHIMMED WITH STRIPS OF NEOPRENE AS SHOWN IN SECTION F-F

MATERIAL NOTE:
FOR -7 1/2 MAY BE -
(A) .102 x 2.38 x 22 1/4, 24ST ALC SPEC-QQ-A-362 COND. T, OR -
(B) K 7347 FF 2 3/8, AL AL EXTR., SPEC-QQ-A-296 COND. T.

Note: / Trim flange of -7R to clear 28G5060 (Ref.) if necessary

Lug attach to -7 Lug before installing -7L Lug. Close -7 to nut 20 inch-lbs

Section A-A

Pick up AN526-632-8 AC365-632 use AN526-832-8 AC365-832

28W1037 (Ref) Fitting

28C1013 (Ref) Aileron Pulley & Brkt

Armor Plate, Furnished & Installed by Govt. - C.A.C. Mfg Templates For Centuring Inst. Of Parts For Cont 19496 & For 22 Ships On Cont. 38476

AN526 DD1032-12 (-14 (L.H. only)

28B5022 (Biscarta) (L.H. only)
NOTE: Locate so that Smoke Tank Release Cable clears Armor Plt. 28U5070-7L by 3/32

Tab Control Pulley (Ref)

QB100-6-16(1) AN814-DD1032-20(1) AC365-D1032

AN526-DD1032-10(2) AC365-D1032(3)

28W014-15 L.H. Rear -16 R.H. Rear (Ref)

28W014-30 (Ref) Mtg. Plate

28U5070-9

28U5070-8

AN526 DD1032-12(2)

AN3-DDH A(1) AC365-D1032 (4) AN425-03

28B5231-18

28B5618-7

28B5618-K

28B5618-8

28B5618-9

28B5231-17

28B5231-19

28B5618-6 Spacer

Insert 3/16 Neoprene Strip Ahead of 28B5231-17

AN526-DD1032-10(1) AC365-D1032(3)

AN526-DD1032-8(2) AC365-D1032(3)

AN526-DD1032-20(1) AC365-D1032(3)

QB10 D-6-16(1)

28W014-23 L.H. -24 R.H. (Ref)

9 Spacer

(25) L.H. for -0 Assy (1 Req)

(24) RH for -0 Assy (1 Req) L.H & R.H for -2 Assy (1 Req ea)

AN3DDH A(1) AC Nu-428(8A17-02(2)) Elastic Stop Nut Corp. Elizabeth N.J. AN425-03

AN3DD11A(1) CAC Nu-428(8A17-02(2)) Elastic Stop Nut Corp Elizabeth N.J. AN425-03

AN425-03 AN3700.25P (2) CAC Nut-428(8A17-02(2)) Elastic Stop Nut Corp Elizabeth N.J.

AN3DD11A(1) CAC Nu-428(8A17-02(2)) Elastic Stop Nut Corp Elizabeth N.J. AN425-03

AN3DD4A(2) CAC Nu-428(8A17-02(2)) Elastic Stop Nut Corp Elizabeth N.J. AN425-03

AN3DD11A(1) CACNu 428(8A17-02(1)) Elas. Stop Nut Corp. Elizabeth N.J. AN425-03

AN3DD4A(2) CAC Nu-428(8A17-02(2)) Elastic Stop Nut Corp Elizabeth N.J. AN425-03

AN3DD11A(1

LTR	ALTERATION	DATE	BY
A	INITIAL RELEASE	1-31-42	
	ASSY REMOVED AN168-3 DEL.		
	AN43-16 WAS AN43-30 ADDED		
	WAS AN115-428, ADDED NOTE		
	"USE CLOVE HITCH" ON DETAIL "A"		
	"-7" IN BALLOON -20 SUB ASSY.		
	AN111-3 WAS "-5" ADDED		
	FIBREGLAS-3 DELETED	4-3-42	
	ADDED REF NOTE "2BF1317-9(REF) FOR PBY-5" 90 TO 345 -2BF1317-7(REF) FOR PBY-5" 346 & ON & PBY-5A		
	MADE REF NO. 2 TO CALL OUT	7-1-42	
B	AN DECAL "C" ADDED		
	28T3058 (REF) ON SECTION V-V		

LTR	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	1-31-42	
	ASSY REMOVED AN168-3 DEL.		
	AN43-16 WAS AN43-30 ADDED		
	WAS AN115-428, ADDED NOTE		
	"USE CLOVE HITCH" ON DETAIL "A"		
	"-7" IN BALLOON -20 SUB ASSY.		
	AN111-3 WAS "-5" ADDED		
	FIBREGLAS-3 DELETED	4-3-42	
	ADDED REF NOTE "2BF1317-9(REF) FOR PBY-5" 90 TO 345 -2BF1317-7(REF) FOR PBY-5" 346 & ON & PBY-5A		
	MADE REF NO. 2 TO CALL OUT	7-1-42	
B	AN DECAL "C" ADDED		
	28T3058 (REF) ON SECTION V-V		

START

WRAP

(7) (WIR-16-80) X 12 IN. REQ FOR WRAPPING.

FINISH

CLOVE HITCH CONNECTION TYPICAL OF ALL ATTACHMENTS EXCEPT AS NOTED

USE CLOVE HITCH

AN43-16 (1)
AN960-416 (2)
AN115-21 (1)
AN310 -4 (1)
AN53-10 (1)
AN320-3 (1)
AN960-10L (2)
AN380C2-3(1)

28F7096 (REF)

28F2172-12

28W3017-9E (REF)

AN442D4 8 PLACES

28W3017-15 (REF)

28U5302-7 (2 REQ)

SECTION "S-S"
SCALE: 12"=1'-0

AN4DD15A (2)
AC365D428 (2)

28U5302-6 (2 REQ)

28W2017-105 (REF)

DETAIL "A"
FOR DETAIL INFORMATION NOT SHOWN SEE 28U5302 DETAIL "D"

28W3017-9E (REF)

1⅛ HOLE IN SKIN.

1⅛ (REF)

21⅛ (REF)

℄ SHIP

28W3017-15 (REF)

SECTION "T-T"
SCALE 12"=1'-0

SECTION "R-R"
SCALE: 1"=1'-0

TE-105 BURNDY (1 REQ)

NAF35787-2 (1 REQ)

36F239 (1 REQ)

AN382-13
AN380-2-2

NAF1006-1 (1 REQ)

28F1317-0 (REF) FOR PBY-5" 90 TO 345
28F1317-7 (REF) FOR PBY-5" 346 & ON & PBY-5A

44" APPROX.

8 (REF)

2 (REF)

AN111-3

(1 EA REQ)

AN386-83
AN380-4-4
AN380-2-2

-20 SUB ASSY

28T3058 (REF)

28F6647-30

DETAIL "C"

NOTE:- ALTERNATE METHOD FOR LEAD-IN TERMINAL.

28U1051 (REF)

28U026 (REF)

SOLDER

45° (APPROX)

45°

See Detail "C"

-21 SUB-ASSY

(6) (REF)

BRASS NUT (REF)
LOCK WASHER (REF)
TE-105 BURNDY (REF)
BRASS NUT (REF)
AN935-10 (2 REQ)
BRASS WASHER (REF)
LEAD WASHER (REF)

SKIN (REF)

SEAL - WATER TIGHT WITH ZINC - CHROMATE PASTE BETWEEN SKIN & 28F5993

28F5993 (2 REQ)

STR. 28B1000-311 (REF)

NAF813858-1 (1 REQ)

℄ SHIP

See Detail "B"

See Detail "A"

FWD

23¼ ALONG CONTOUR OF SKIN

3 DIA (REF)

2⅛ DIA (REF)

℄ 3.0

3

8 DIA HOLE IN SKIN

10 (.193) Ø HOLES TO MATCH 28F5993
AN525D10-10 (8 REQ.)
AC365D1028 (8 REQ.)

DETAIL "B"

℄ 3.0

SECTION V-V

NOTES:-

1. EXACT LENGTH OF -8 TO BE DETERMINED ON FIRST INST.
2. AFTER COMPLETION THOROUGHLY SATURATE EACH ANTENNA WITH "PAR-AL-KETONE." WIPE OFF EXCESS WITH CLEAN, DRY CLOTH.
3. BURNDY TERMINALS TE-52 & TE-105 MAY BE PURCHASED FROM BURNDY ENG. CONDON & YOUNG, LOS ANGELES, CALIF.; WIR-16-80 FROM DUCOMMUN METAL SUPPLY, NEW YORK, NY, CA-T3 FROM J. A. ROEBLING, LOS ANGELES, CALIF.

MCR 212-1

APPROVED FOR TOOLING BY V. BROWN E-5-42

PART NO.	STOCK	MATERIAL	SPEC	LIST NO REQ -0	LIST NO REQ -2	LIST NO REQ -3	LIST NO REQ -4	LIST NO REQ -6
AN525D10-10				8	8	8	8	8
AC365D1028				8	8	8	8	8
AN935-10				2	2	2	2	2
AN4DD15A				2	2	2	2	2
AC365D428				2	2	2	2	2
AN442D4				-	-	-	-	-
-11 SUB ASSY								4C
-10 SUB ASSY								4C

A.E.		CHECK	
HEAT TREAT	NONE	FINISH	NOTED
		WEIGHT	

NAME ANTENNA - INSTALLATION RADIO COMM. - SENSE

SIZE J

DWG NO. 28U5104

CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.

H-490

TRAILING EDGE ASSY - WING - OUTER PANEL

28W023

H-491

R 28W023

PLAN VIEW
SCALE 1½"=1'-0"

DETAIL C
SCALE 1'-0"=1'-0"

DETAIL D
SCALE 1'-0"=1'-0"

VIEW T
SCALE 6"=1'-0"

SECTION C-C
SCALE 6"=1'-0"

SECTION F-F
SCALE 6"=1'-0"

SECTION B-B
SCALE 6"=1'-0"

SECTION D-D
SCALE 6"=1'-0"

SECTION N-N
SCALE 6"=1'-0"

VIEW O-O
SCALE 3"=1'-0"

SECTION P-P

SECTION L-L
SCALE 3"=1'-0"

SECTION M-M
SCALE 1½"=1'-0"

SECTION H-H
SCALE 1½"=1'-0"

TYPICAL SECTION K-K
SCALE 6"=1'-0"

SECTION S-S
SCALE 6"=1'-0"

SECTION G-G
SCALE 6"=1'-0"

VIEW R-R
VIEW Q-Q
SCALE 6"=1'-0"

DETAIL SHOWING PLACING OF DRAIN HOLES
SCALE 6"=1'-0"

SECTION E-E
SCALE 6"=1'-0"

LH SHOWN
RH OPPOSITE

NOTE:-
THE TOLERANCE ON ALL CONTOUR DIMENSIONS SHALL BE ±1/64, UNLESS OTHERWISE SPECIFIED, FOR AILERON, AILERON CUTOUT TR. EDGE, TR EDGE OUTER PANEL, AND TR. EDGE CENT. SECT. ASSEMBLIES

MATERIAL NOTE:
(AJ) 1. GRADE OF FIBER MAT'L USED AS LOCKING STRIPS TO BE PHENOLIC FABRIC BASE 1775 TYPE FBM FORM B

~ SPARES NOTE ~
IN FURNISHING SPARES, ALL MODELS, HOLES WHERE ATTACHMENT IS TO BE MADE TO OUTER PANEL WILL BE DRILLED BEFORE DELIVERY.

FINISH NOTE
PBY-1-EP-2AGP
PBY-2 EP-EGP
PBY-3 E-P-1AP ON DETAIL (E)
PBY-4 1AP ON ASSEM

FINISH CODE
Z ANODIC TREATMENT
P P-21 PRIMER
AP ALUMINIZED PRIMER
C CORROSION PLATE
G P GREEN PRIMER

LIST	ALTERATION	DATE	BY
U	TRACED UP TO DATE	4-8-51	
V	ADDED SECTION "P" SHOWING	4-8-51	
W	CRIMP AL CNS & T.E.	4-8-51	
X	CLEARFIES SEC DD & NN	1-4-52	
X	REV'S RIGS ADDED		
Y	RIVET TAPPING STOP ADDED		
Z	ED SHEET 1 ADD'D & ED SHEET 2 REVISED		
AA	NATURAL CE SPLASTIK with RED FILLER		
AB	DRIFT HOLES 3/16 DIA. ADDED 9-22-52	9-22-52	
AC	CH-added DETAIL 28W1139-2 THE PIVOT	1-21-53	
AD	ADDED NOTE AN425-D2 TO ATTACH EXTRA	2-9-53	
AE	ADDED DETAIL OF -92	11-13-53	
AF	28W1040-9, 8-19-11 ADDED AS PER HAND PRESS PAT 28W1040-8, 2-26-54	3-17-55	
AG	CHANGED DRAIN HOLES TO 3/16 DIA.	6-3-55	
AH	-82 & -83 WERE .050 AL ALLOY -74, 77, 78, 79, 84, 85 WERE .016 AL ALLOY		
	DRAIN HOLE NOTES & PNT-2		
	REQ ADDED	12-16-55	
AI	ARROW MOVED TO LINE RIGHT OF STA A	4-12-56	
AK	ADDED "VIEW" "T"	11-26-56	
AL	1¼ WAS 1 7/8 & 4 1/16 DIM. ADDED	10-1-56	
AM	W32-D4 WAS AN 442-D4	11-12-56	
AN	G9010-6-4 WAS 9B9068-6	11-14-56	
AP	1¼ WAS 1¾ & 1 1/2" PIECE OF -42-6	1-24-57	
AQ	ANGLE ELIMINATED ON DETAIL "B"	6-7-61	
AR	Q810-D6-10 WAS Q810-D4-14 & D4-16		
	3/16 USE Q810-D2-16 INSTEAD OF Q810-D4-14 & 5 PER SHIP	8-14-61	
AS	C+T 3/16 OFF HEAD OF EXTRUSION 23	4-19-62	
AT	ADDED NOTE - (ALL -82 -83)		
AU	ADDED MATL NOTE (1) HEAT WT 644	4-24-63	
AV	IN NOTE: "SPACE AT APPROX ---"		
	TAP" TAP FIBER WITH .006 OVER SIZE TAP 1/4"-20 "C" "DO NOT TAP"		
AW	FIBER (INSPECTION) NO WT 5.89 MOR-RX-84-A (FORMERLY 31-ABT WAS) 7/8 x 1 1/4 x 2" SECTION AC 3456 WT 8.81 WERE 8.82 WT 6.48 - 16	6-24-63	
AX	ON FACE OF ONLY EDGE - D2 REMOVED "MADE FROM K-EDGE" ADDED "MADE FROM" NOTE (AU WT 6.48)	9-16-63	
		3-22-65	

-A	20-3AHN	28W024	1	28W1050-2	
-L	20-3AHN		1	28W1050-1	
-G	20-3MR		1	-49	
-L	20-6MR		1	-108	
-G	20-5MR		1	59	
-L	20-5MC		1	59	
-G	20-5MC		1	57	
-L	20-5MA		1	56	
-L	20-5MA	28W024	1	55	
-L	20-5MN		1	54	
-L	20-5MN		1	53	
-L	20-6MC		1	28W1052-01	
-A	PBY-1		1	-50	
-L	PBY-2		1	-51	
-L	PBY-3A		1	-83	
-R	PBY-4A		1	-82	
-L	PBY-3	28W024	1	-70	
-R	PBY-4		1	-76	
-J	PBY-3	28W024-1	1	-77	
	PBY-4		1	-78	
-L	PBY-3	28W024-2	1	-3	
	PBY-4		1	-4	
-L	PBY-2	28W024	1	-5	
	PBY-2	28W024	1	28W1052-2	
-L	PBY-1	28W024	1	-3	
	PBY-1	28W024	1	-4	

| | | | | |

SUPPLIED & EQUIPMENT CLASSIFICATION

LET	ALTERATION	DATE	BY
R	TYPICAL	6-8-27	
S	ADD -7 & -11 ASSYS - ADD -8 & -9 DETS	9-27-27	
T	RELOCATED HOLES IN -3 DET	10-26-27	
U	ADDED NOTE		
V	ADDED NOTE 7b - CHG -6		
W	ADDED DETAIL OF -8 & -9	12-27-27	
X	ADDED -11 & -12 ASSYS & CHG'D NOTE 5		
	ASSYS -10-11-12 & -13 & DETAILS	7-28-28	

STA 7 ℄ — STA 8 ℄

6 EQUAL SPACES @ 3/4

5 EQUAL SPACES @ APPROX 2"

5 EQUAL SPACES @

6 EQUAL SPACES @ 3/4

4 EQUAL SPACES @ 3"

6 EQUAL SPACES @ APPROX 1 3/8

6 EQUAL SPACES @ 2 1/2"

5 EQUAL SPACES

BOLT AN3-14 - 1 REQ'D.
BOLT AN3-16 - 1 REQ'D
NUT AN310-3 - 2 REQ'D
COTTER AN380-2-2 2 REQ'D

DRILL ALL HOLES AT INSTALL

Ⓤ

REAM 1/32 FOR BUSHING AC636-3D-1A DRILL HOLE IN STA-C 1/64 LESS TO PERMIT PRESS BUSHING AT ASSEM

AN442-08 3 REQ.

AN515-08-4 2 REQ'D
C'SINK 90° ± 1/2°
BOTH SIDES

AN515-08-4 /

SPAR ℄

AN442-05 13 REQ.

⑦ AL ALLOY STRIP 3/4 - .81 3 REQ. ATTACH ASST. FILE TO FIT 1 REQ. SW-E-5 BRACKET (REF) AN442-02 FLUSH BOTH ENDS - 2 REQ SPACE ON E-7 BETWEEN TWO AN442-08 AT EACH END - 2 REQ

THIS DIM. 3/16 ON ASSY-12 & -13 ONLY

SEE DETAIL ⑧ L.H. ⑨ R.H.

⑧ L.H. ⑨ R.H.

⑤ L.H. ⑥ R.H. ANGLE CLIP 12S AL ALLOY SHEET PDY-1 SHIP "44 ON 4 PDY'S USE -3 & -4 WITH HOLES LOCATED AS SHOWN ON DETAIL OF -8 & -9

③ L.H. BRACKET ④ R.H. BRACKET } PDY 1 & 2 SHIP'S, TO 40 INC. ONLY

28W5021 L.H. -1 R.H. PDY-3, PDY-4 & PDY-5 FUTURES, 4 PDY-6

-2 REINFORCEMENT 062

AN442-08 2 REQ.

AN442-06 2 REQ.

12 EQUAL SPACES

AN442-06

28W032-4 L.H. FITTING
28W032-3 R.H. FITTING

28W032-2 L.H. FITTING
28W032-3 R.H. FITTING

ADD'L ENCIRCLED RIVETS (4 PLACES) - PDY-3 & PDY-4 FOR INFORMATION REGARDING PLUSH RIVETS - SEE TAB 5008

NOTE:
ALL RIVETS AN442-06 UNLESS OTHERWISE NOTED
USE AN426-3-3.5 FOR PDY'S UNDER CONTRACT 5170I ONLY - FOR FUTURES USE ASSY -10, & -11.

28W027 L.H. SHOWN
APPLY 1 COAT SYNTHETIC ENAMEL PER SPEC AND 1 COAT CLEAR LACQUER PER SPEC
"SHIP PDY'S 44 TO 50 INC. ALSO "0497
FINISH NOTE (GP)
PDY-1 - E.P. ASSY DETAILS - 1 ASSEM.
PDY-2 } E.P. 1 ASSY DETAILS
PDY-3 } 1 PR. AN ASSEMBLY.
PDY-4 (GP)

VIEW A-A

VIEW B-B

DETAIL -8 & -9 PDY-3 ONLY
SCALE 6"/10"

NOTE: -8 & -9 IDENTICAL TO -5 & -6 EXCEPT FOR LOCATION OF HOLES & WIDTH OF FLANGE

STA 7 ℄ OF FITTING ℄ BOLT

FLAT PATTERN FOR -3 L.H. BEND OPPOSITE FOR -4 R.H.
.063 AL ALLOY SHEET
FOR PDY'S & PDY'S SHIP'S 1 TO 44 INC. ONLY

FINISH CODE	
A	
B	
C	

-6	PDY-3	28W027-3	1A
-7	PDY-3	28W5021-3	1A
-9	PDY-5	28W5021	
-10	PDY-5	28W5021-5	
-11	PDY-6	28W5021-6	
-10	PDY-6	28W027-5	
-11	PDY-6	28W027-6	
-10	PDY-6	28W027-7	
-12	PDY-6	28W027-8	
-13	PDY-6	28W027-9	
-7	PDY-6	28W027-10	
	PDY-6	28W027-11	
	PDY-6	28W027-12	
-8	PDY-6	28W027-13	
-9	PDY-6	28W027-14	

SHIP'S 1 TO 44

AN442-02	2 2 2 2 2
AN442-03	1 1 1 1 1
AN470-04-4	4 4 4 4 4
AN442-06	
AN426-3-3.5	2 2 2 2 2
AN3-14	1 1 1 1 1
AN3-16	1 1 1 1 1
AC685-08	

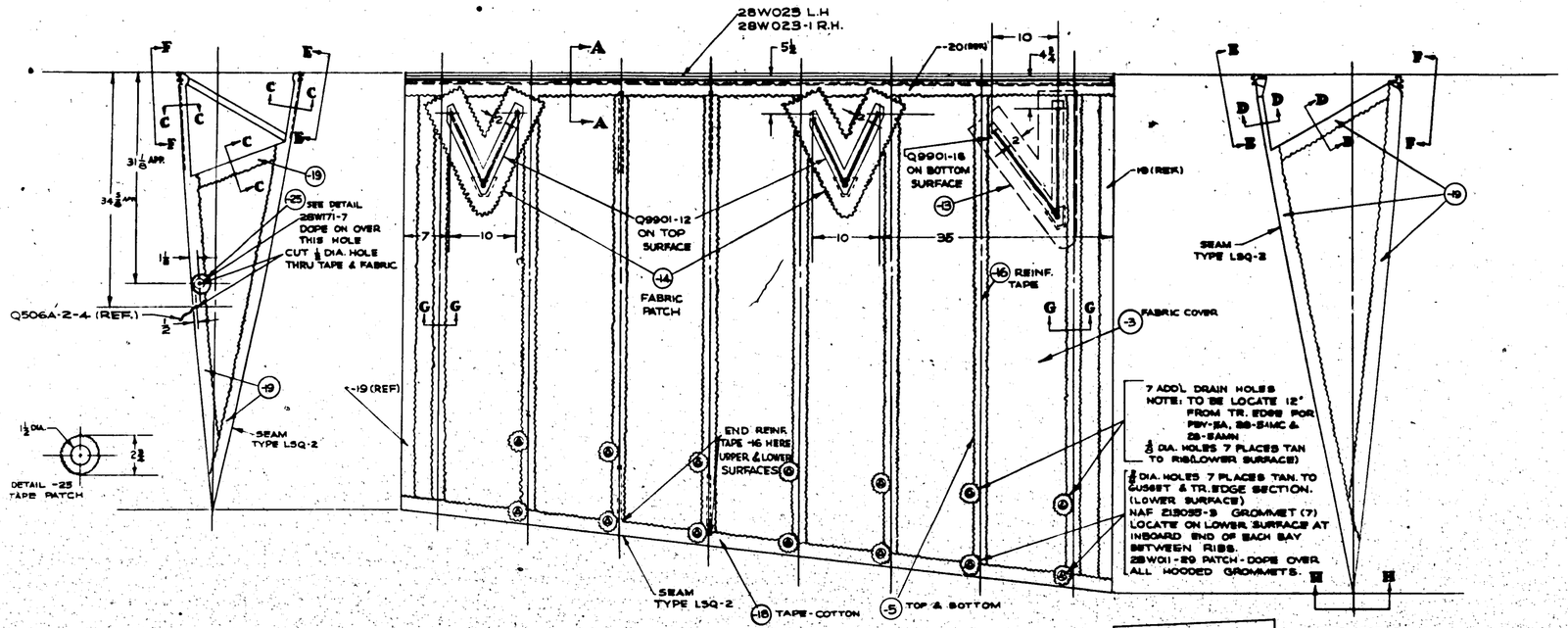
REPLACES
REPLACED BY
LIMIT ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
SCALE 6"/1'-0"
REQUIREMENTS PER AIRPLANE
MAT.
PARTS LIST PER ASSY.
ENGR. APPD. 6-10-27 DATE
DES.
CALC'D. ACT. WT.
MATERIAL
SPEC. HEAT TREAT FINISH
NOTED NOTED NOTED
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.
NAME FITTING - LAND FRONT OUTER STRUT ATTACHMENT
DWG. NO. 28W027
SHEET 1 OF 2 SHEETS
SHIFT UNITS ITEMS QTY.

-9-3-4-5-6 SPACE 4 PAGE (CONDITION A)
ALL AL ALLOY SHEET UNDER 3 THICKNESS 7075 ALLOY BARE PLATE
ALL AL ALLOY EXTRUSIONS UNDER .500 THICK 7075 ALLOY
HEAT TREAT ALL CONDITIONS & CONDITIONS PER SPEC 3A 05.
RIVETS IN ALLOY GROUP AS NOTED

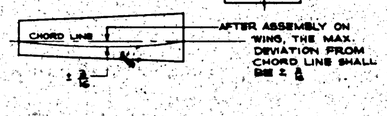
H 492

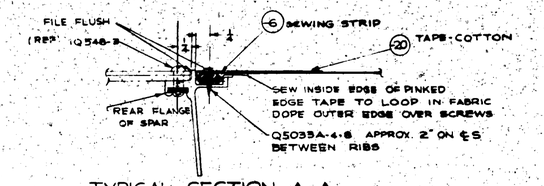
Ⓤ Ⓦ Ⓣ Ⓨ

LET	ALTERATION	DATE	BY
AT	TRACED - NO WT. CHGE	8-11-43	

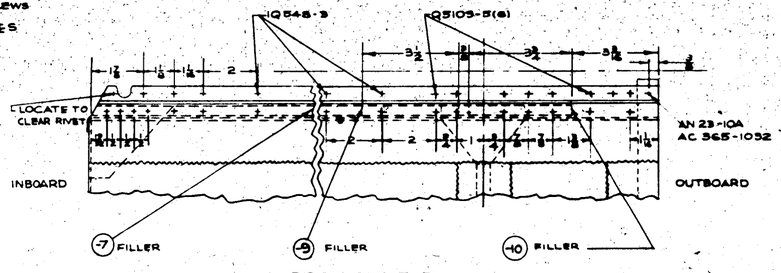


PLAN VIEW
SCALE: 1½" = 1'-0"





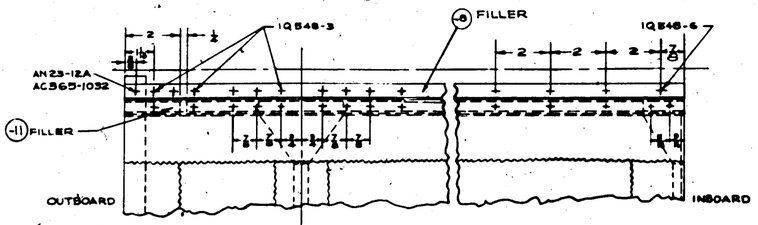
TYPICAL SECTION **A-A**
UPPER & LOWER SURFACE
FULL SIZE



SECTION **F-F**
SCALE - 6" = 1'-0"

SECTION **C-C**
FULL SIZE

SECTION **D-D**
FULL SIZE

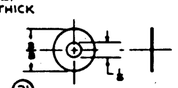


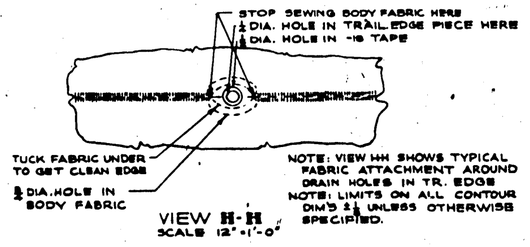
SECTION **E-E** - TYPICAL SCREW SPACING AT RIBS
SCALE 6" = 1'-0"

SECTION **G-G**
FULL SIZE

BINDING HEAD PARKER-KALON SELF-TAPPING SCREW SPACE APPROX 3" AND LOCATE TO CLEAR ALL RIVETS. SCREWS TO BE CAD. PLATED STEEL; MINIMUM PLATING .0005" THICK

TYPICAL SECTION SHOWING RIB LACING KNOT TO BE AS SHOWN IN FIG 9 SPEC. SR63 KNOT TO BE LOCATED ℄ RIB FOR PBY-4 AND FUTURE. SPACE LACING 2 IN.





VIEW **H-H**
SCALE 12" = 1'-0"

NOTE: VIEW HH SHOWS TYPICAL FABRIC ATTACHMENT AROUND DRAIN HOLES IN TR. EDGE
NOTE: LIMITS ON ALL CONTOUR DIM'S ± ⅛ UNLESS OTHERWISE SPECIFIED.

DOPING PROCESS FOR PBY-2, PBY-3 & PBY-4

ALL FABRIC COVERED SURFACES SHALL BE DOPED AS PER SPEC. SR70 EXCEPT THAT THE MATERIALS & COATS SHALL BE AS FOLLOWS:
ALL SURFACES TO BE GIVEN—
4, OR MORE COATS IF NECESSARY, TO GET PROPER TAUTNESS, OF CLEAR NITRATE DOPE SPEC. D-15 WITH THINNER SPEC. T-25
2 COATS OF PIGMENTED DOPE WITH THINNER, SPEC. T-25; FIRST 2 COATS BRUSHED ON; LAST 4 MAY BE SPRAYED. LAST 2 COATS ON UPPER SURFACE SHALL BE ORANGE-YELLOW PIGM. DOPE SPEC. D-16. LAST 2 COATS ON ALL OTHER SURFACES SHALL BE AL. PIGM. DOPE; CONSISTING OF 2½ OZ. OF #325 MESH AL. GRAY PASTE TO 5 GAL. CLEAR NITRATE DOPE - SPEC. D-15
REF. 28B 2048
DOPING FOR PBY-1 -- SPEC. SR70 - 5 COATS CLEAR NITRATE DOPE - SPEC. 3 BRUSH 2 - SPRAY 2. 2 COATS PIGMENTED DOPE SPEC. 32 D4a (SPRAYED). ALUMINUM COLOR - BOTTOM SURFACE. ORANGE-YELLOW COLOR - TOP SURFACE. COVER & DOPE ON FALSE SPAR.

FABRICS TABLE (QUANTITIES ARE PER TR. EDGE)

COVERING PER SPEC. SR63A FOR PBY-5
COVERING PER SPEC. SR63
DOPING PER SPEC. SR70 & AS NOTED
FABRIC COVER -3 COTTON SPEC. 49C13 GRADE A .8 YDS X 90" WIDE
PINKED EDGE SURFACE TAPE -5 SPEC. 27T14 2½" WIDE 32 YDS.
PINKED EDGE -18 6" WD. X 3½ YDS. GRADE A TAPE COTTON SPEC. AN-CCC-C-399
PINKED EDGE SURFACE TAPE -19 SPEC. 27T14 3" WIDE X 10 YDS.
FABRIC-28 PER PATCHES -13, -14 SPEC. 49C13 GRADE A COTTON 60" X 1 YD.
LACING CORD SPEC. VT-291, 11 PLY, TYPE B R.H. TWIST, PRE-COLORED WAXED 40 YDS.
TWILLED REINFORCING TAPE -16 COTTON - SPEC. 27T13 35 YDS. (WIDTH 1")
DOPE - CLEAR 1½ GAL. ORANGE-YELLOW 1½ GAL. ALUM. PIGM. 1 GAL.
THREAD FOR MACHINE SEWED SEAMS TO BE AS FOLLOWS - FOR BOBBIN, COTTON TH'D SPEC. V-T-276 NO. 16 4 CORD TYPE 1A L.H. TWIST - FOR NEEDLE, COTTON TH'D SPEC. V-T-276 NO. 16 4 CORD TYPE 1B L.H. TWIST.
THREAD FOR HAND SEWING TO BE LINEN SPEC. V-T-291, NO. 30, 3 CORD, R.H. TWIST.
PINKED EDGE TAPE -20 GRADE A COTTON SPEC. 49C13 3½" WIDE X 6 YDS.
SHOP DRIVEN RIVET HEADS AND ALL SHARP EDGES CONTACTING FABRIC ARE TO BE COVERED WITH ADHESIVE TAPE.
COVER IS SEAMLESS BLANKET TYPE.
APPLY BEESWAX, SPEC. 5B24 PER SPEC. SR63a TO LACING CORD
MACHINE SEWED SEAMS TO BE IN ACCORDANCE WITH FED. SPEC. CCC-T-191
COVERING TO BE IN ACCORDANCE WITH LATEST EFFECTIVE REVISION OF SPEC. SR63

ALL FIBRE FILLERS AND SEWING STRIPS ARE GRADE S BLACK "SPALDITE" SPALDING FIBRE CO. TONAWANDA, N.Y.

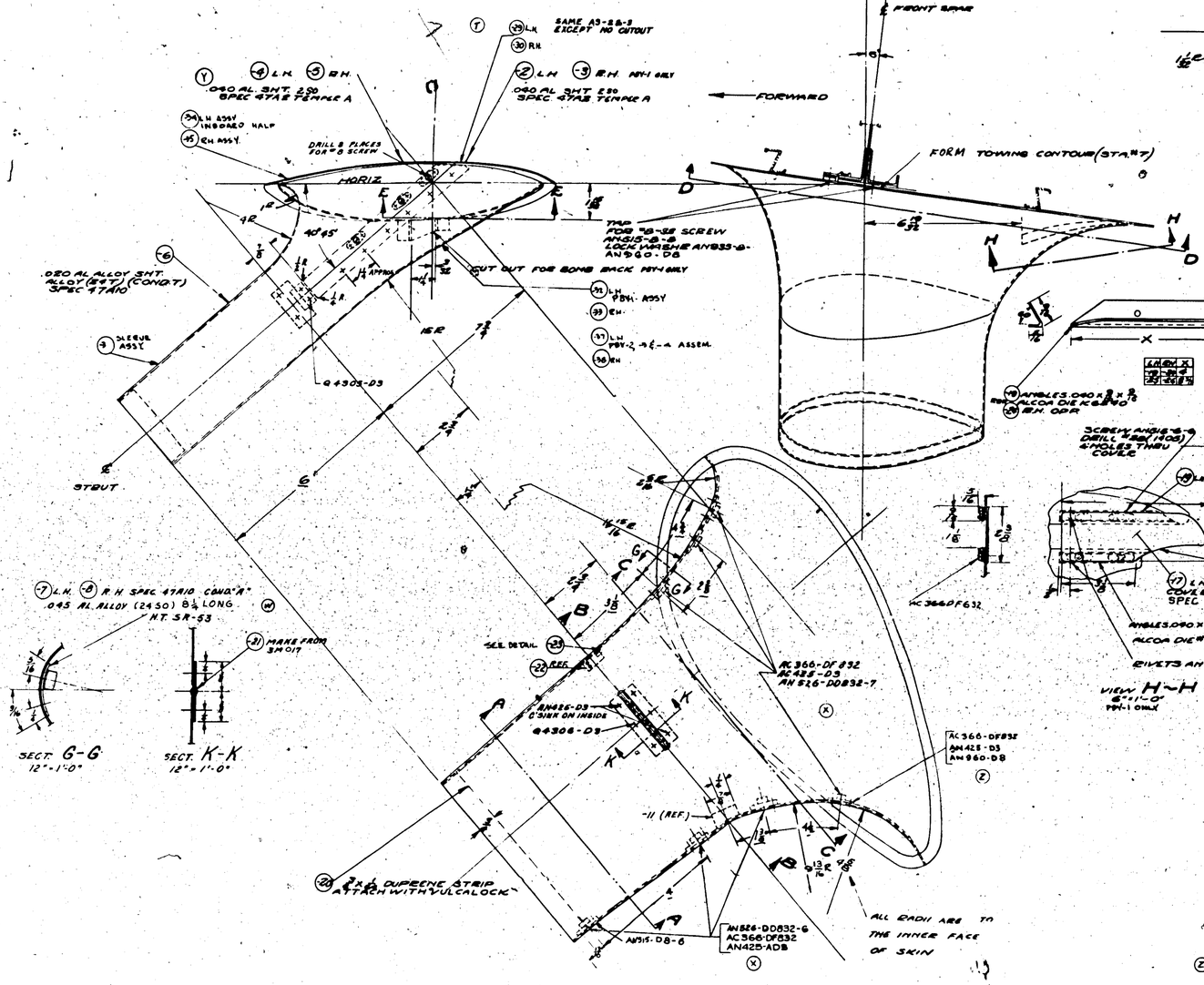
PART NO.	STOCK	MATERIAL	SPEC.	-0	-1	-3	-4	-5
	PARTS LIST PER ASSY.			REQ.	REQ.	REQ.	REQ.	REQ.
AC365-1032				2	2	2	2	
NAF-213035-3				7	7	14	14	
AN23-12A				1	1	1	1	
AN23-10A				1	1			
1Q548-6				1				
1Q548-3				344	344	344	344	
Q9901-18				2	2	2	2	
Q9901-12				4	4	4	4	
Q5103-5				6	6	6	6	
Q5103-6				36	36	36	36	
Q5033A-4-4				6	8	7	8	7
28W171-7				1	1	1	1	
28W025-1				1				
28W023-1					1			
28W011-29				7	7	8	14	
-28	2½ x 2½	YELLOW WH	27T14					
-27	1Q548-3	2½	AC	2A&T				
-20	3½ x 10	YDS	49C13		NOTED			
-18	10 YDS. 3" WD	WHITE	27T14		NOTED			
-16	35 YDS. 1" WD	WHITE	27T13		NOTED			
-14	60" X 1 YD	FABRIC	49C13		2	2	2	
-13	60" X 1 YD	FABRIC	49C13		2	2	2	
-10	1 YD	BLACK FIBRE	49C13					
-9	1 YD	BLACK FIBRE	49C13					
-8	1 YD	BLACK FIBRE	49C13					
-7	1 YD	BLACK FIBRE	49C13					
-6	2½ x 90"	WHITE PINKED EDGE	49C13	2	2	2	2	
-5	2½ x 90"	WHITE PINKED EDGE	49C13		NOTED			
-3	90" WD.	COVERING FABRIC	49C13					

AS MANY	NONE	NOTED	T.P.F. 0.0
NEXT HIGHER	FINISH	GROUP	QUANTITY

NAME COVERING ASSY WING OUTER PANEL-TRAILING EDGE
SIZE J
DWG. NO. 28W024
SUP. NO. 28W024-RH

H 493

R 28W024



SUPPLIES & EQUIPMENT CLASSIFICATION		
LET	ALTERATIONS	DATE
R	TRACED	6-21-37
S	INCORPORATE CHANGE No.	8-13-37
	CHANGE ORDER 44362	
T	ELIMINATED BOMB RACK CUTOUT FOR PBY-2 & PBY-3, ADDED -A7 (-28 ASSY. ONLY) ADDED -A8 Pc	2-25-41
U	CHANGE DRAWING LIP TO MATE AND ADDED PBY-4 REQ'TS	" "
	TREAT AS A NEW DWG	12-31-41
V	ADDED BLOCK FOR PBY-5 (CONV'T. FROM PBY-4) & PBY-5A (CONV'T. FROM PBY-5)	6-6-42
W	-11 WAS 1.285 (28837)	6-1-43
X	REPLACED AN425-D8-6 7 REQ'D WITH AN526-DD832-6 5 REQ'D & AN960-D8 4 REQ'D	1-8-43
Y	80 WAS 3 1/2 N FOR -1/3-4A-5	8-18-43
Z	REPLACED BY WDR-15-49, AN455-D3 AN960-8 WITH AC366-DF832 AN425-D3 IN Bill (SAME AS DWG)	1-8-44
AA	Q4401-6K-1 (5) WAS 6 C (4)	
	NO WT. CHG.	10-19-43

E.O. 17248

AC 366-DF832	2						
AN 960-D8	2						
AN 425-D3	5						
Q 4306-D3	9						
28W075-22	1						
-21	2						
-20	1						
-11	1						
28W075-6	1						
28W075 ASSEMBLY INBOARD HALF	1						
AN425-D3	10	10					
AN960-D8	10	10					
AN 515-6-6	4	4					
AC 366-DF 632	4	4					
AC 366-DF 832	5	5					
AC-425-D3	16	16					
Q 4305-D3	9	9					
28W075-26	1						
-25	1						
-24	1						
-23	1	1					
-21	1	1					
-19	1						
-18	1	1					
-17	1						
-8	1						
-7	1						
-3	1						
28W075-2	1						
28W075 ASSEMBLY PBY-1 OUTBOARD HALF	32-33						
AN526-DD832-7	4	4	4				
AN960-D8	5	5	5				
AN935-6	3	5	5				
AN935-8	7	7	7				
Q4401-6K-1	3	5	5	5			
AN960-D8	12	12	12				
AN 515-6-8	5	5	5				
AN 515-8-8	7	7	7				
AN 415-3	2	2	2	2			
ASS'Y. 28W075-38	1			1			
-37	1						
-36	1	1	1	1			
-35	1	1	1				
-34	1	1					
-33	1	1					
ASS'Y. 28W075-31	1						
ASS'T. NO.		-1	-21				

AC425-D3	2	2	AN425-D3	10	10	-8	1
Q4305-D3	2	2	AN960-D8	10	10	-7	1
28W075-23	1	1	AC366-DF832	5	5	-3	1
-21	1	1	AC425-D3	8	8	28W075-2	1
-5	1		Q4305-D3	9	9	28W075 ASSEMBLY	32-33
28W075-4	1		28W075-30	1		PBY-1 OUTB'D	L R
28W075 ASSEMBLY INBOARD HALF	34-35 L R		-29	1		AN526-DD832-7	4 4 4
			-23	1	1	AN526-DD832-6	5 5 5 5
			-21	1	1	AN960-D8	5 5 5 5
			-8	1		AN935-6	3 5 5 5
			28W075-7	1		AN935-8	7 7 7 7
			28W075 ASSEMBLY OUTBOARD HALF	37-38 L R		Q4401-6K-1	3 5 5 5
						AN960-D8	12 12 12
						AN 515-6-8	5 5 5 5
						AN 515-8-8	7 7 7 7
						AN 415-3	2 2 2 2
						ASS'Y. 28W075-38	1
						-37	1
						-36	1 1 1 1
						-35	1 1 1
						-34	1 1
						-33	1 1
						ASS'Y. 28W075-31	1
						ASS'T. NO.	-1 -21

-27	PBY-4	28W4001	1	28	PBY-4	28W4001	1
-26	PBY-3	28W4001	1	-27	PBY-4	28W4001	1
-25	PBY-2	28W4001	1	-26	PBY-3	28W3001	1
-24	PBY-1	28W4001	1	-25	PBY-2	28W2001	1
-23	PBY-5A	28W5001	1	-24	PBY-1	28W1001	1
-22	PBY-5	28W5001	1	-23	PBY-5A	28W5001	1
-21	PBY-4	28W4001	1	-22	PBY-5	28W5001	1
-20	PBY-3	28W3001	1	-21	PBY-4	28W4001	1
-19	PBY-2	28W2001	1	-20	PBY-3	28W3001	1
-18	PBY-1	28W1001	1	-19	PBY-2	28W2001	1
-17	PBY-1	28W1001	1	-18	PBY-1	28W1001	1
				-17	PBY-1	28W1001	1

-27	PBY-4	28W4001	1	28	PBY-4	28W4001	1
-26	PBY-3	28W3001	1	-27	PBY-4	28W4001	1
-25	PBY-2	28W2001	1	-26	PBY-3	28W3001	1
-24	PBY-1	28W1

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
Q	TRACED	6-4-38	
R	BROUGHT DRAWING UP TO DATE AND ADDED NEW & REQ'TS		
	TRACE AS A NEW DWG	12-4-39	
S	CHANGED 2 ⅛ R TO 3⅛ R.	8-23-40	
T	AN525DD832-8 WAS AN526-8-8		
	67006-AL11-030 WAS AN960-8	1941-40	
U	REPLACED AN515-D8-8 T RQD	8-8-41	
	WITH AN526-DD832-8 3 REQ'D & AN526-DD832-7 4 REQ'D		
	AN515-8-8 FROM 2 REQ'D TO 5 REQ'D & AN526-DD832-8 FROM 4 REQ'D TO 3 REQ'D		
W	REPLACED 28 WOTF-14, 28 WOTF-8, AC426-03 & AN960-04 BY 28 WOTG-8, AC426-03 & AN960-08 REMOVED SEC. F	2-15-43	
X	WAS: FACE 47AB PIN	8-14-43	
Y	NOTE ADDED TO FACE OF DWG. PARTS 28-WF-21-18A FROM 2⅛ R TO 2.50 R. 47AB TEMPER A	4-17-43	
Z	Q4401-6K-1 (T) WAS: B.F. GOODRICH CO. "6K-T5, (2). 240 WT. CHG.	10-2-43	

E.O. 28862
PBM 2,304

E.O. 37521

E.O. 39750
PBY-5, 2845 E.O. 37520A

NOTE: USE 2.8 ⅞ H MATERIAL ON HAND BEFORE PUTTING THIS CHANGE INTO EFFECT.

(Y)

RH (-11) (-15) RH
LH (-10) (-12) LH

(X) .040 ALUMINUM SHEET SPEC. 47A2 A

FOREWARD

6°

℄ REAR SPAR

CHORD LINE ROOT SECTION

C C

(24) LH (25) RH INBOARD HALF ASSEM.

— 18⅜ —

Q4806-DS 8 EQUALLY SPACED

CUTOUT FOR REINFORCEMENT

℄ CONSTANT

FORM TO LOWER WING - CONTOUR ROOT SECTION

A A

28 WOTF-23

38° 15'

AN526-DD832-7 (U)

(21) LH (22) RH OUTBOARD HALF ASSEMBLY

℄ REAR STRUT

AC426-03 C'SK ON INSIDE

Q4806-03

HINGE PIN AN615-8

28WOTS-3C ASSEMBLY

AN526-DD832-6 (U)

(5)

(W) AC366-DF832 AN425-03 AN960-08

℄ REAR STRUT

17¼

9½ — 8 — 6 — 4 — 2 — 2 — 4 — 6 —

INTERSECTION OF INSIDE FAIRING AND WING COVER

FLANGE

INSIDE FAIRING

SECTION A-A
SCALE 6"=1'0"

-21-22 REF

.032 AL ALLOY SHEET SPEC. 47AD COND. T ALLOY 24ST (-2) (-3)

AC366-DF832 RIVET TO -2 & -3 ONLY
AN425-03
AN 960-08

TYPICAL SECTION D-D
SCALE 12"=1'0"

SECTION B-B
SCALE 12"=1'0"

DRILL "28 (.140) ON ASSY TO WING Q4401-6K-1 RIVNUT (Z)
AN515-6-8
AN935-6
AN960-6

DRILL "28 (.136) TAP "8-32 AN526DD832-8 AN935-8 67006-AL-11-.030 (T)

Q4806-03

SECTION C-C
SCALE 6"=1'0"

PRICK PUNCH AND RIVET TO -10, -11, -12 & -15 AS SHOWN

.063 AL ALLOY SH. SPEC. 47AD 24 ST COND. T

DRILL ON ASSY TO WING SEE NOTE ON ASSY FOR DRILL SIZE

DETAIL OF -16
SCALE 12"=1'0"

HINGE 28WOTS-21

SECTION EE
SCALE 12"=1'0"

DRILL "29 (.136) TAP "8-32 (NF-2) WING ONLY, TO CLEAR RIVETS
AN515-8
AN935-8
67006-AL 11-.030 (T)

(W) AN960-D8 4 4

(W) AC426-DS 6 6
Q4805-DS 6 6
28WOTS-23 1 1
↓ -21 1 1

(W) AC366-DF832 8 8
28WOTG-16 2 2
↓ -11 1
28WOTG-10 1
28WOTG -23-34
ASSEMBLY L R
INBOARD HALF

AC366-DF832 3 3
AC426-DS 8 8
Q4805-DS 14 14
28WOTS-23 1 1
28WOTS-21 1 1
28WOTG-16 2 2
↓ -13 1
-12 1
-9 1
28WOTG -2 1
28WOTG -21-22
ASSEMBLY L R
OUTBOARD HALF

C.704864
C.91876, 91-90

33 SHEETS

-1	PBY-5A	28W4001	1	AN526-DD832-7 4 4
-1	PBY-5A	28W4001	1	AN526-DD832-6 5 3
-1	28-SMN	28WS501	1	67006-AL-11-030 4 4
-1	28-SMN	28WS501	1	Q4401-6K-1 RIVNUT 2 2
-1	28-SM8	28WS501	1	AN515-6-8 5 5
-1	28-SMC	28WS501	1	AN515-8-8 8 8
-1	28-SMC	28WS501	1	AN935-6 2 2
-1	28-SMA	28WS501	1	AN935-8 4 4
-1	28-SMA	28WS501	1	AN960-D6 2 2
-1	PBY-5	28W4001	1	AN960-D8 8 8
-1	PBY-5	28W4001	1	AN960-8 2 2
-1	PBY-A	28W4001	1	
-1	PBY-A	28W4001	1	
-1	PBY-5	28W4001	1	
-1	PBY-5	28W4001	1	ASM 28WOTS-16 1 1
-1	PBY-A	28W4001	1	ASM 28WOTG-16 1
-1	PBY-A	28W4001	1	↓ -23 1 1
-1	PBY-1	28W4001	1	↓ -22 1 1
-1	PBY-1	28W4001	1	ASM 28WOTG-2-1 1 1
-1	PBY-1	28W4001	1	

REPLACES					
REPLACED BY					
LIST OR DRAWINGS VOIDED					
CALC. WT.	250	INCT. BY			
SCALE	1"=1'0"				
DRAWN					
TRACED					
CHKD.					
MATERIAL					

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

		6-10-38	-L	JPSY-1	28W001
		DATE		JPSY-1	28W001

LET	ALTERATION	DATE	BY
E	TRACED UP TO DATE	3 11 51	
F	-4 & -5 24-A WAS 24-T	8-13-51	
	H.T. NOTED WAS NOT ABOVE		
G	CUT OUT FOR PULLEY BKT IN -2 & -3. -22 WAS DELETED & Dim ADDED	7-27-51	
H	ANGLES WAS ADDED	1-14-52	
	4 1/4 HOLES WAS 7 3/8 HOLES	"	
J	CHANGE RIB-END-WING CVR PANEL TO 219-98 FROM 81-640 BRASS	11-5-52	FACILITIES
K	REMOVED 3 HOLES FROM EDGE OF DRWG. ADD DRILL NOTE REMOVED		
	DRILL NOTE #M3 & DRILL L.H. ONLY		
	DRILL TO SIZE AT ASSY (6 HOLES)		
	DRILL RH THRU L.H. AT ASS'Y.	10-14-53	
L	1/4 HOLE WAS ADDED WITH 2 LOCATIONS		
	DIM. DRILL NOTE WAS (3 HOLES)	7-31-57	
M	REMOVED NOTE: ALL PARTS IN 24 ANGLES ALLOWED 5/8" RIBS		
	EXCEPT AS NOTED." ADDED NOTE		
	NOTES -1 & -2, SEC -4 & -5 REVD		
	CONSD. ALUM 248, H.T. 135 ET.		
	MISCELLANEOUS	2-16-59	
N	CREATED 90°/6 A31Y ANGS AS -3 1/4		
	SHEET -23 & -24 REPLACE	4-28-59	
	-4 & -5, ADDED DETAIL "C".		
	WT CHG REQ.		
P	DIM. 1 WAS 5/16, 1 3/4 WERE: DELETED		
	TOP VIEW SHOWING RIVET PITCH		
	LOCATIONS & IN BOTTOM VIEW		
	REMOVED NOTE "PRICK PUNCH IN SIDE" & DIMS. 1/8, 5/8 & 9/16	7-15-65	
Q	CHG MAT'L NOTE #1 WAS "1 MAT'L PER"		
	FOR -5, -7, -8, -9, -10, -11, -12, -13, -14, -15, -16, -17		
	-17: Y-6-A26RT. NO WT CHG	8-14-98	

DETAIL C
SCALE 6"-1'0"

SECTION B-B

SECTION A-A
6"-1'0"

NOTE: CUT OFF CORNERS OF OUTSTANDING LEG ON ALL WEB MEMBERS AS SHOWN

MATERIAL NOTES-
Q 1-MAT'L FOR -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -16, & -17 MAY BE-
M (A) Y-6-A26RT, OR
(B) K1288, AL. AL EXTR., SPEC. QQ-A-354-T.
2-MAT'L FOR -2, -3, -4, -5, -23 & -24 K1288, 24ST. AL AL. EXTR., SPEC. 4548 COND. T.

DRILL (9 HOLES) TO SIZE AT ASSY
THESE HOLES ARE TO BE JIG-LOCATED UPON FABRICATION OF TRAILING EDGE DO NOT PRE-DRILL RIBS AS IN THE PAST

-5QK	PBY-5A	28W138	/
-5QL	PBY-5A	28W139	/
-9QK	PBY-5	28W138	/
-9QL	PBY-5	28W139	/
O.H.	MODEL	MAT'L ASSY.	SPEC

REPLACES
REPLACED BY
LIMIT OR DIMENSIONS UNLESS OTHERWISE SPECIFIED: 2 PLACE DEC ±.02, 3 PLACE DEC ±.010, FRACTIONS ±1/64, ANGLES ±30'
SCALE 6"-1'0"
NAVY NOTED
MATERIAL

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

FINISH
Z MASK
P PER PBY-1
ZOP ALUMINIZE
C CHROMIZE
EP GREEN

FOR PBY-1
FOR PBY-2
FOR PBY-3

-1	PBY-1	28W	
-1	PBY-2	28W	
-1	PBY-3	28W	
-1	PBY-5	28W	
-	PBY-1	28W	
-	PBY-2	28W	
-	PBY-3	28W	
-	PBY-5	28W	
-	PBY-1	28W	
-	PBY-2	28W	
-	PBY-3	28W	
-	PBY-5	28W	

TO MCA #276
TO MCA #276
MCA #276 & ON
MCA #276 & ON

O.H.	MODEL	NEXT ASSY	QTY
	REQUIREMENTS PER ASSEMBLY		
MAT.	NOTED	NOTED	NOTED
SPEC.		HEAT TREAT	FINISH

PARTS

RIB-END-WING CENTER PANEL-TRAILING EDGE

J 28W141

H 496

15 16 17 18 19 20

LET	ALTERATION	DATE
S	ARRANGE AS SHOWN & DIMENSIONED	10-24-44
U	SEE SHEET "1"	10-31-44
V	ORDINATE CHANGE - 7.286, 7.87, 8.30, 9.5.86 SEE SHEET "1"	10-31-44
W	CHG. FILLER PLATE - 222, -227, -230 TO -1/16" THK. 2.5876 (REF) & 2.911, -241 TO -1/8" THK.	11-2-44
Y	CHG. -230 MATERIAL FROM .032 TO .051	11-6-44

E.O. 19804 E.O. 19838
B.A.C. No. 10 ✗
B.A.C. E.O. # 373

RIB STA. "25"
RIVETS ARE AN442-D6

RIB STA. "20"
RIVETS ARE AN442-D6 EXCEPT AS NOTED

RIB STA. "26"
RIVETS ARE AN442-D6

RIB STA. "21"
RIVETS ARE AN442-D6 EXCEPT AS NOTED

RIB STA. "23"
RIVETS ARE AN442-D6

(COVER NOT SHOWN)
DETAIL Q
SCALE 12" = 1'-0"

NOTE: FOR BILL OF MATERIAL SEE SHEET "2"

H-497

SHEET "2"

PBY-5A	SEE SHEET "1"										
PBY-5B	SEE SHEET "1"										
PBY-5	SEE SHEET "1"										
PBY-6	SEE SHEET "1"										
PBY-6A	SEE SHEET "1"										
PBY-6	SEE SHEET "1"										
PBY-6A	SEE SHEET "1"										

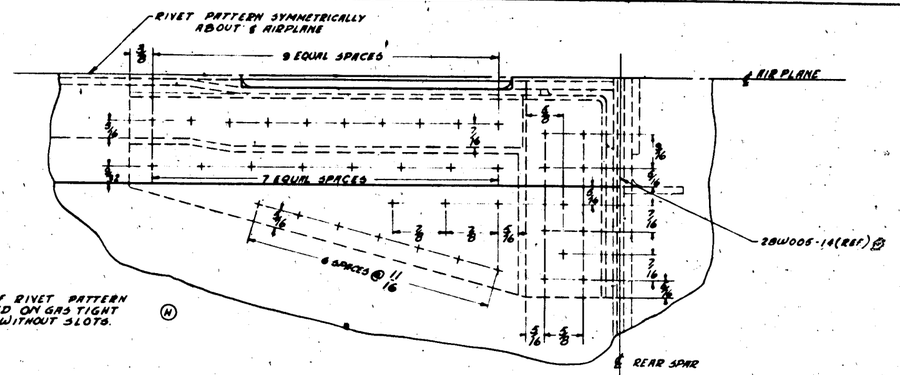
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

NAME: RIBS WING LEADING EDGE OUTBD PANEL

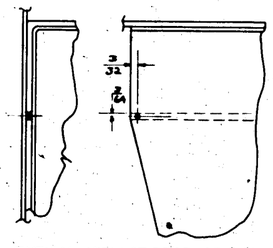
SIZE A3 | CODE IDENT. NO. | DWG. NO. | SHEET NO. | REV.

LET	ALTERATION	DATE	BY
F	TRACED	6-16-39	
G	[illegible]	9-20-39	[illegible]
H	DETAIL OF RIVET PATTERN TO BE USED ON GAS TIGHT CORNERS WITHOUT SLOTS AS SHOWN.		
J	RIVET PATTERN AT NO. 3? FITTING REVISED PER LAYOUT DRWG # 28W5200	11-8-40	
K	REMOVED 7/8 x 11 DIM. & REQ'D FROM DIM. & ADDED ALTERNATE NOTE: "SEE SHEET 2 FOR ALTERNATE MATERIAL, NO WT. CHG.	3-24-41	
K	SYN. RUBBER 1 PLACE, WAS "SYN. RUBBER" WAS "SEE SHEET 2 FOR ADDITIONAL SYN. RUBBER" WAS "SEE SHEET 2 FOR ADDITIONAL SYN. RUBBER" ADDED NOTE 3, WT. CHG. NEG.		
L	ADDED NOTE "ALTERNATE MATL. ---- RWST." WT. CHG. NEG.	6-24-41	
M	ADDED FOLLOWING DWG NOS. 28W5193(3), 28W5194(4), 28W5195(2), 28W5196(4), 28W5197(4), 28W5198(4), 28W5199(4), 28W5139(4), 28W5200(2), 28W5201(4), 28W5202(2), 28W5203(2), & REMOVED -2 & ALL NOTES PERTAINING TO SYNTHETIC RUBBER. NO WT. CHG.	8-28-41	

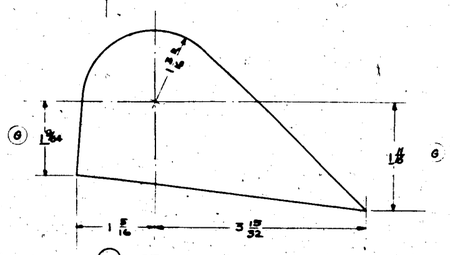
E.O. 29128 E.O. 20040 E.O. A 96073 E.O. B 3198



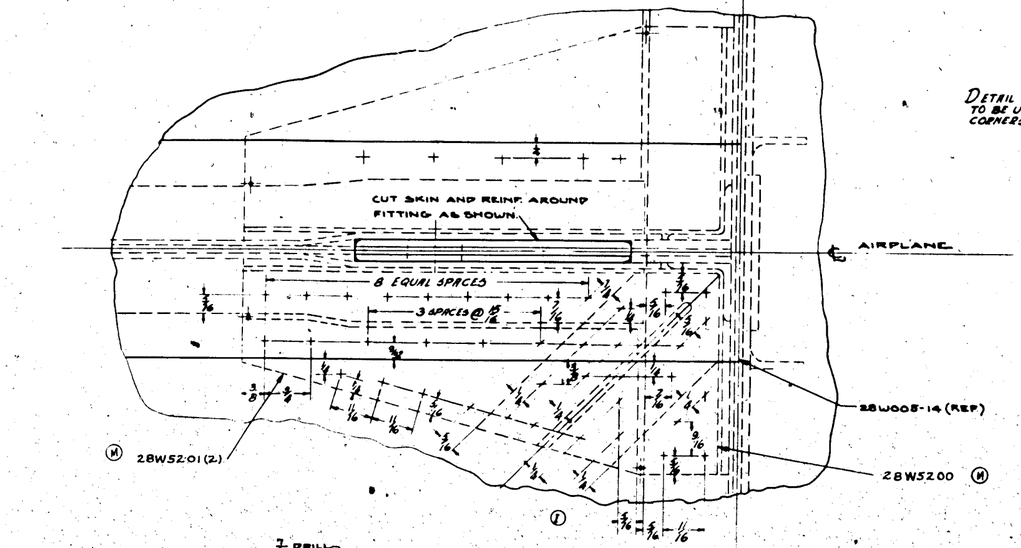
DETAIL OF RIVET PATTERN TO BE USED ON GAS TIGHT CORNERS WITHOUT SLOTS. (M)

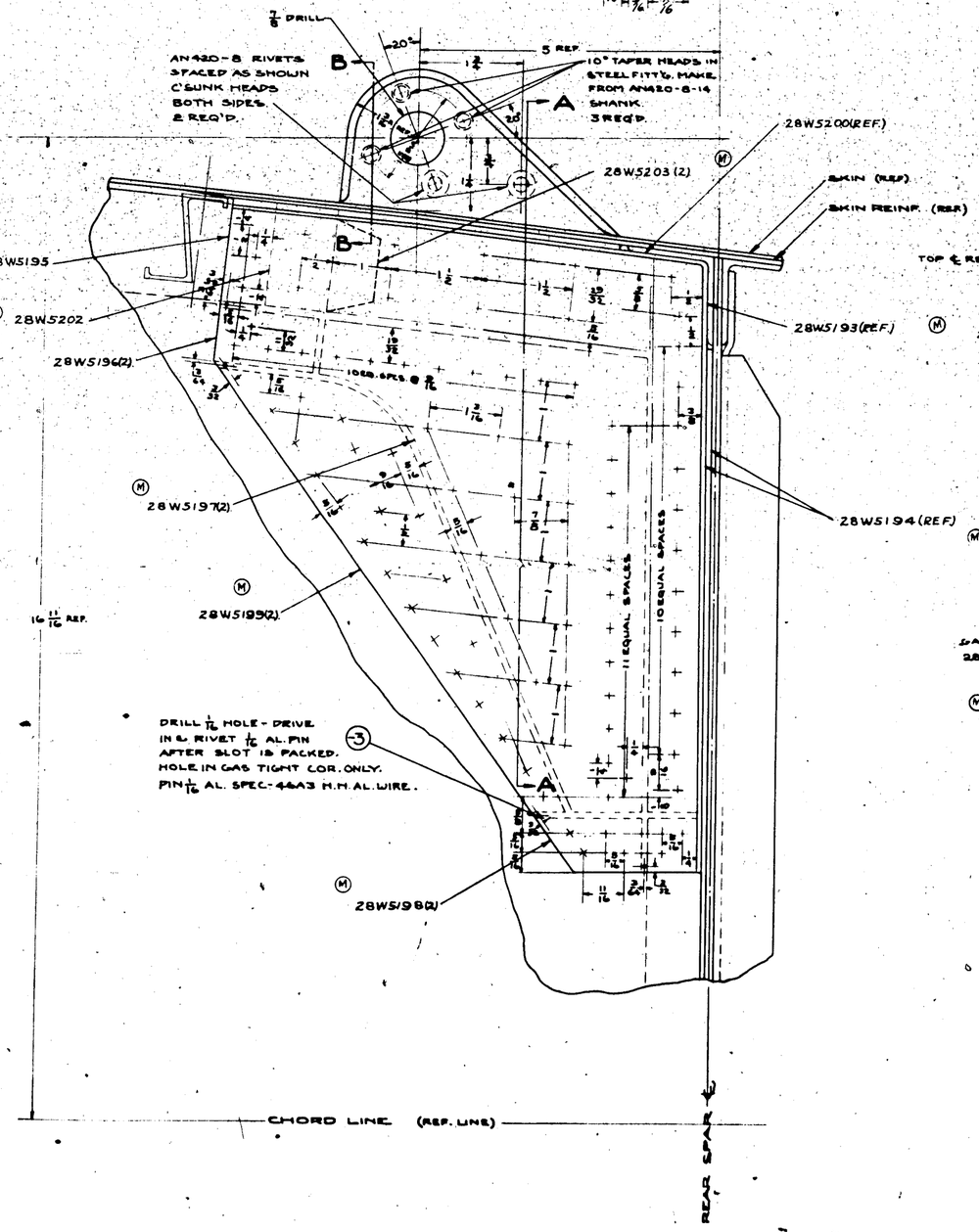


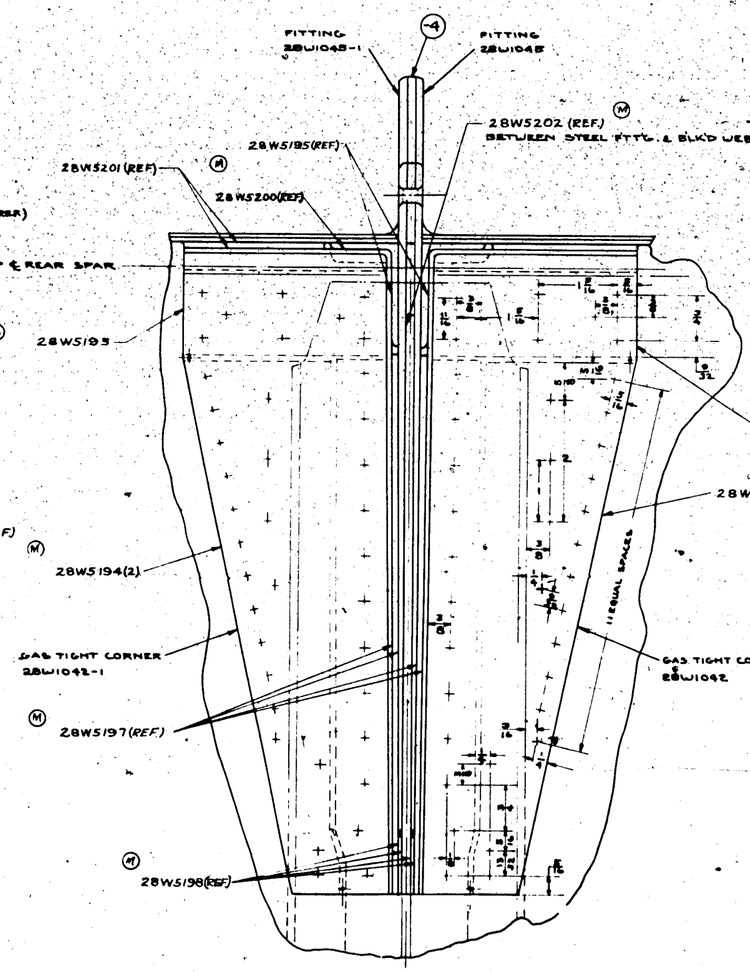
TYPICAL VIEW AT EDGE OF GAS TIGHT CORNER SHOWING METHOD OF RETAINING PACKING IN SLOT BETWEEN SPACER & ANGLE FLANGE.



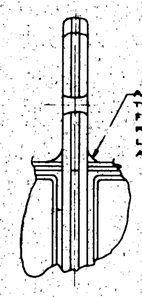
(-4) .125 SH'T ST'L CHR. MOLY. HEAT TREAT SH 27-4 FINISH - C-2AKU PBV-1 C-2-AL PBV-2 & RIVETS.







SECTION A-A



SECTION B-B

FINISH CODE	
Z	ANODIC TREATMENT
P	P-27 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

(P-GREEN PRIME

NOTE:
1. ALL RIVETS AN442-D6 UNLESS OTHERWISE SPECIFIED.
FINISH - Z SURFACES THAT COME IN DIRECT CONTACT WITH FUEL.
ALL OTHERS - Z-P-GP, FOR PBV-1
Z-P-GP, FOR PBV-2 & FUTURE
(K) SEE 28W2141 FOR ADDITIONAL SYN. RUBBER

4. FOR -3, ALTERNATE MATERIAL MAY BE .061 A17S AL. ALLOY WIRE, SPEC. AN-QQ-W-298 COMP. 4 AN 442 AD6 RIVET.

28W5202	2	2	
28W5202	2	2	
28W5201	4	4	
28W5200	2	2	
28W5199	4	4	
28W5198	4	4	
28W5197	4	4	
28W5196	4	4	
28W5195	2	2	
28W5194	4	4	
28W5193	2	2	
28W1045-1	1	1	
28W1045	1	1	
28W1042-1	1	1	
28W1042	1	1	
-3		3	16
-4		4	

2A-6 MK	DOMESTIC	/		
2A-5 MK	DOMESTIC	/		
2A-5AK	DOMESTIC	/		
2A-5AKW	DOMESTIC	/		
PBV-6A	DOMESTIC	/		
PBV-5A	DOMESTIC	/	12219	
PBV-5	DOMESTIC	/		

PBV-4	28W1003		
PBV-4	SQU4005		
PBV-3	28W1005	AN420-8-14	3 3
PBV-2	28W1005	AN420-8	8 8 8
PBV-1	28W1005	AN442-D6	

				PARTS	PARTS LIST PER ASSY.
NOTED	NOTED		NOTED		
MATERIAL	SPEC.	HEAT TREAT	FINISH	SHEET	SHEETS

CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

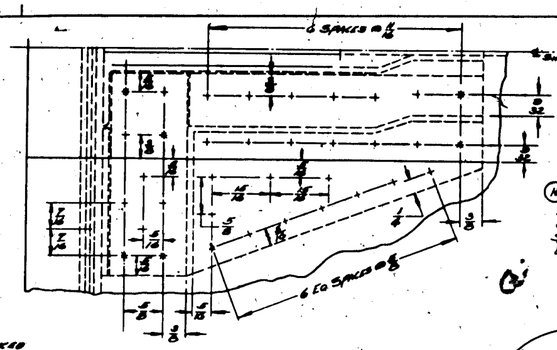
NAME: FITT'G. ASSY WING - REAR SPAR HOISTING SLING

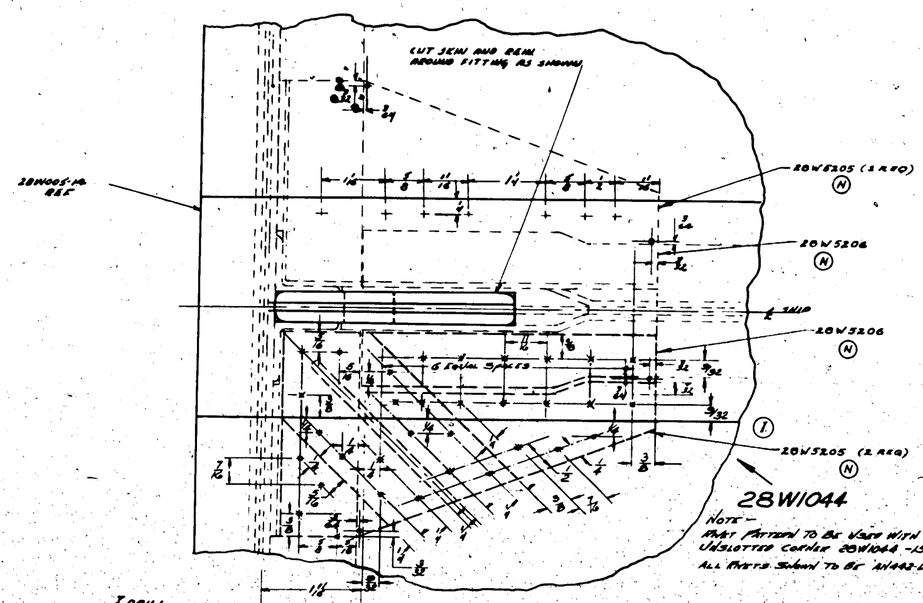
PART NO. J 28W1041

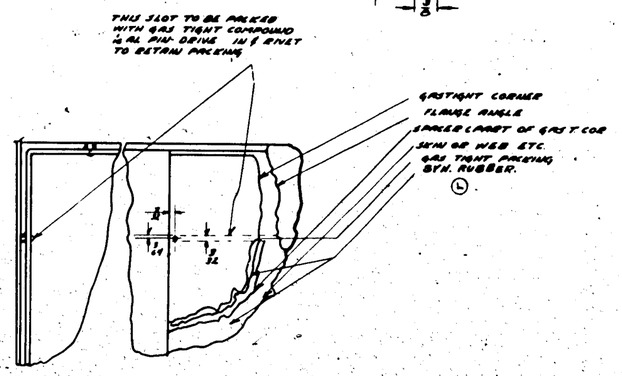
H 498

LET	ALTERATION	DATE	BY
J	TRACED	8-1-43	[illegible]
H	ADDED AN-C-MRS PATTERN E.O. 83616	11-8-43	[illegible]
I	CHG PATT PATTERN AS ON E.O. 84941	11-8-43	[illegible]
	REVISED	11-8-43	[illegible]
J	DELETED MS20426AE 426 RIV DIA. FOR - S.L.R. ADDED NOTE "FOR ---"	3-27-45	[illegible]
	28W5181. AS WT CHG	3-27-45	[illegible]
K	AN430-6-12 WAS AN 426-6-7	3-27-45	[illegible]
	AN430-5-16 WAS AN430-8-8 AS WT CHG	3-27-45	[illegible]
L	CHG "A" "DUPRENE" TO "SYN. RUBBER" (3 PLACES); NOTE "FOR ADDITIONAL SYN RUBBER SEE 28W2191" WAS "FOR ADDITIONAL NEOPRENE SEE 28W2181. ADDED NOTE: "ALL SYN. RUBBER ——— GRADE B" WT CHG NEG. E.O. A96176	9-27-45	[illegible]
M	ADDED NOTE "ALTERNATE MATERIAL ---RIVET." WT. CHG. NEG. E.O. 83191	9-27-45	[illegible]
N	RAN'D -3 & NOTED "SYN. RUBBER --- SHOWN "(5 PLS)" & "SYN. --- THICK." ADDED 28W5106 (4), 28W5108 (4), 28W5109 (4), 28W5110 (4), 28W5111 (2), 28W5112 (2), 28W5113 (4), 28W5114 (2), 28W5203 (4), 28W5204 (2), 28W5205 (4), 28W5206 (2), 28W5207 (4), 28W5208 (4), 28W5210 (4), 28W5211 (2), 28W5212 (2), 28W5213 (4), 28W5214 (2) WT. 5.436 WAS 6.2	9-28-45	WELLS

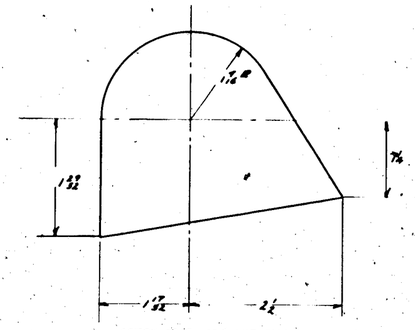
E.O. 83616
E.O. 84941
E.O. A96176
E.O. 83191



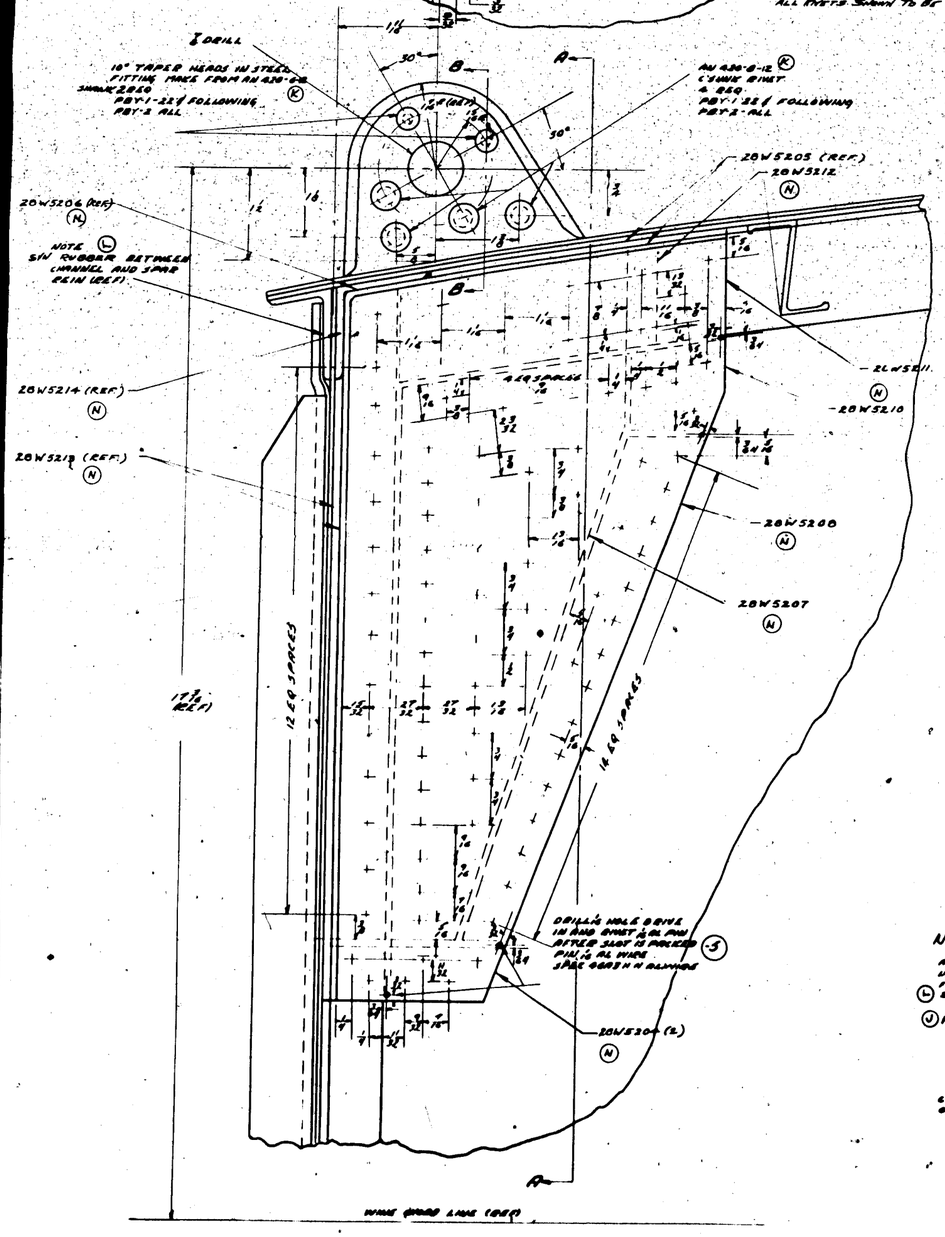


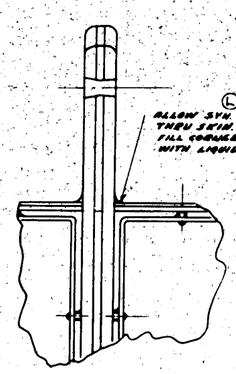


TYPICAL VIEW OF SLOT BETWEEN FLANGE ANGLE & GAS TIGHT CORNER AL ALLOY SPACER

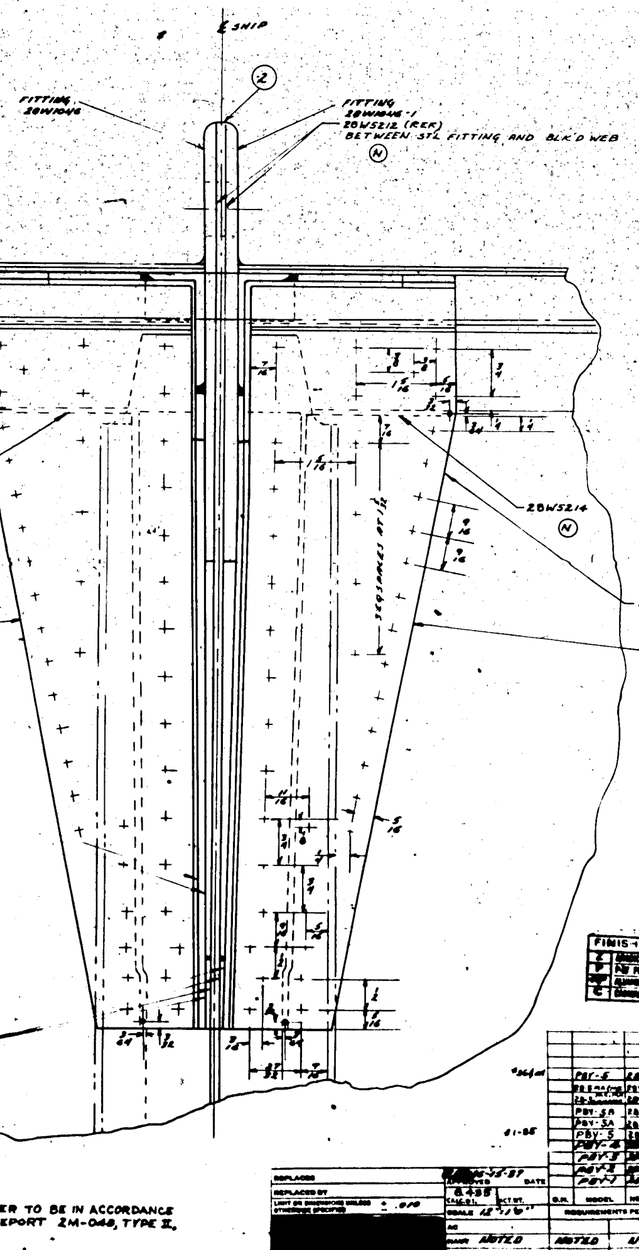


DETAIL OF -2 .125 CHD. MOLY STL INT SPAC SHEET & FINISH C





SECT B-B



NOTE:
ALL SPARS TO BE AN 401-06 UNLESS OTHERWISE SPECIFIED
FINISH - ANOD
(L) SYN. RUBBER BETW. ALL STEEL & AL. ALLOY PARTS
(V) FOR ADDITIONAL SYN. RUBBER SEE 28W2191 (L)

CLEAN OFF ANY EXPOSED PRIMER ON THE INSIDE OF TRIM WITH REMOVOL

28W5214	2	2	2								
28W5213	4	4	4								
28W5212	2	2	2								
28W5211	2	2	2								
28W5210	4	4	4								
28W5208	4	4	4								
28W5207	4	4	4								
28W5206	2	2	2								
28W5205	4	4	4								
28W5204	2	2	2								
AN430-5-12	8	8	8								
AN430-6-12	4	4	4								
28W5181	1	1	1								

FINISH CODE
A — Alodine
B — Paint
C — Cadmium Plate

PBY-5	RANGER	L									
PBY-5A	RANGER	L	1/4	28W1044	1		1		1		
PBY-5A	RANGER	R	1/4	28W1044-1	1		1		1		
PBY-5A	CATALINA	L		28W5181	1		1		1		
PBY-5A	CATALINA	R		28W5181-1	1		1		1		
PBY-5	CATALINA	L		28W5181	1		1		1		
PBY-5	CATALINA	R		28W5181-1	1		1		1		
PBY-6	CATALINA	L		28W5181	1		1		1		
PBY-6	CATALINA	R		28W5181-1	1		1		1		
PBY-5	CANSO	L		28W5181	1		1		1		
PBY-5	CANSO	R		28W5181-1	1		1		1		
PBY-5A	CANSO	L		28W5181	1		1		1		
PBY-5A	CANSO	R		28W5181-1	1		1		1		
PBY-6	CANSO	L		28W5181	1		1		1		
PBY-6	CANSO	R		28W5181-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5182	1		1		1		
PBY-5	RANGER	R	1/4	28W5182-1	1		1		1		
PBY-5A	RANGER	L		28W5182	1		1		1		
PBY-5A	RANGER	R		28W5182-1	1		1		1		
PBY-5	CATALINA	L		28W5182	1		1		1		
PBY-5	CATALINA	R		28W5182-1	1		1		1		
PBY-6	CATALINA	L		28W5182	1		1		1		
PBY-6	CATALINA	R		28W5182-1	1		1		1		
PBY-5	CANSO	L		28W5182	1		1		1		
PBY-5	CANSO	R		28W5182-1	1		1		1		
PBY-5A	CANSO	L		28W5182	1		1		1		
PBY-5A	CANSO	R		28W5182-1	1		1		1		
PBY-6	CANSO	L		28W5182	1		1		1		
PBY-6	CANSO	R		28W5182-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5183	1		1		1		
PBY-5	RANGER	R	1/4	28W5183-1	1		1		1		
PBY-5A	RANGER	L		28W5183	1		1		1		
PBY-5A	RANGER	R		28W5183-1	1		1		1		
PBY-5	CATALINA	L		28W5183	1		1		1		
PBY-5	CATALINA	R		28W5183-1	1		1		1		
PBY-6	CATALINA	L		28W5183	1		1		1		
PBY-6	CATALINA	R		28W5183-1	1		1		1		
PBY-5	CANSO	L		28W5183	1		1		1		
PBY-5	CANSO	R		28W5183-1	1		1		1		
PBY-5A	CANSO	L		28W5183	1		1		1		
PBY-5A	CANSO	R		28W5183-1	1		1		1		
PBY-6	CANSO	L		28W5183	1		1		1		
PBY-6	CANSO	R		28W5183-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5184	1		1		1		
PBY-5	RANGER	R	1/4	28W5184-1	1		1		1		
PBY-5A	RANGER	L		28W5184	1		1		1		
PBY-5A	RANGER	R		28W5184-1	1		1		1		
PBY-5	CATALINA	L		28W5184	1		1		1		
PBY-5	CATALINA	R		28W5184-1	1		1		1		
PBY-6	CATALINA	L		28W5184	1		1		1		
PBY-6	CATALINA	R		28W5184-1	1		1		1		
PBY-5	CANSO	L		28W5184	1		1		1		
PBY-5	CANSO	R		28W5184-1	1		1		1		
PBY-5A	CANSO	L		28W5184	1		1		1		
PBY-5A	CANSO	R		28W5184-1	1		1		1		
PBY-6	CANSO	L		28W5184	1		1		1		
PBY-6	CANSO	R		28W5184-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5185	1		1		1		
PBY-5	RANGER	R	1/4	28W5185-1	1		1		1		
PBY-5A	RANGER	L		28W5185	1		1		1		
PBY-5A	RANGER	R		28W5185-1	1		1		1		
PBY-5	CATALINA	L		28W5185	1		1		1		
PBY-5	CATALINA	R		28W5185-1	1		1		1		
PBY-6	CATALINA	L		28W5185	1		1		1		
PBY-6	CATALINA	R		28W5185-1	1		1		1		
PBY-5	CANSO	L		28W5185	1		1		1		
PBY-5	CANSO	R		28W5185-1	1		1		1		
PBY-5A	CANSO	L		28W5185	1		1		1		
PBY-5A	CANSO	R		28W5185-1	1		1		1		
PBY-6	CANSO	L		28W5185	1		1		1		
PBY-6	CANSO	R		28W5185-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5186	1		1		1		
PBY-5	RANGER	R	1/4	28W5186-1	1		1		1		
PBY-5A	RANGER	L		28W5186	1		1		1		
PBY-5A	RANGER	R		28W5186-1	1		1		1		
PBY-5	CATALINA	L		28W5186	1		1		1		
PBY-5	CATALINA	R		28W5186-1	1		1		1		
PBY-6	CATALINA	L		28W5186	1		1		1		
PBY-6	CATALINA	R		28W5186-1	1		1		1		
PBY-5	CANSO	L		28W5186	1		1		1		
PBY-5	CANSO	R		28W5186-1	1		1		1		
PBY-5A	CANSO	L		28W5186	1		1		1		
PBY-5A	CANSO	R		28W5186-1	1		1		1		
PBY-6	CANSO	L		28W5186	1		1		1		
PBY-6	CANSO	R		28W5186-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5187	1		1		1		
PBY-5	RANGER	R	1/4	28W5187-1	1		1		1		
PBY-5A	RANGER	L		28W5187	1		1		1		
PBY-5A	RANGER	R		28W5187-1	1		1		1		
PBY-5	CATALINA	L		28W5187	1		1		1		
PBY-5	CATALINA	R		28W5187-1	1		1		1		
PBY-6	CATALINA	L		28W5187	1		1		1		
PBY-6	CATALINA	R		28W5187-1	1		1		1		
PBY-5	CANSO	L		28W5187	1		1		1		
PBY-5	CANSO	R		28W5187-1	1		1		1		
PBY-5A	CANSO	L		28W5187	1		1		1		
PBY-5A	CANSO	R		28W5187-1	1		1		1		
PBY-6	CANSO	L		28W5187	1		1		1		
PBY-6	CANSO	R		28W5187-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5188	1		1		1		
PBY-5	RANGER	R	1/4	28W5188-1	1		1		1		
PBY-5A	RANGER	L		28W5188	1		1		1		
PBY-5A	RANGER	R		28W5188-1	1		1		1		
PBY-5	CATALINA	L		28W5188	1		1		1		
PBY-5	CATALINA	R		28W5188-1	1		1		1		
PBY-6	CATALINA	L		28W5188	1		1		1		
PBY-6	CATALINA	R		28W5188-1	1		1		1		
PBY-5	CANSO	L		28W5188	1		1		1		
PBY-5	CANSO	R		28W5188-1	1		1		1		
PBY-5A	CANSO	L		28W5188	1		1		1		
PBY-5A	CANSO	R		28W5188-1	1		1		1		
PBY-6	CANSO	L		28W5188	1		1		1		
PBY-6	CANSO	R		28W5188-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5189	1		1		1		
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PBY-5A	RANGER	L		28W5189	1		1		1		
PBY-5A	RANGER	R		28W5189-1	1		1		1		
PBY-5	CATALINA	L		28W5189	1		1		1		
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PBY-5	CANSO	L		28W5189	1		1		1		
PBY-5	CANSO	R		28W5189-1	1		1		1		
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PBY-6	CANSO	L		28W5189	1		1		1		
PBY-6	CANSO	R		28W5189-1	1		1		1		
PBY-5	RANGER	L	1/4	28W5190	1		1		1		
PBY-5	RANGER	R	1/4	28W5190-1	1		1		1		
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PBY-5	CANSO	L		28W5190	1		1		1		
PBY-5	CANSO	R		28W5190-1	1		1		1		
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PBY-5	RANGER	L	1/4	28W5191	1		1		1		
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PBY-6	CANSO	R		28W5191-1	1		1		1		
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PBY-5A	CANSO	R		28W5195-1	1		1		1		
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PBY-6	CANSO	R		28W5195-1	1		1		1		
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PBY-5A	CANSO	R		28W5196-1	1		1		1		
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PBY-5	CANSO	R		28W5202-1	1		1		1		
PBY-5A	CANSO	L		28W

SUPPLIES & EQUIPMENT CLASSIFICATION			
LET	ALTERATION	DATE	BY
M	TRACED TO DATE	6-21-39	
N	WAS - 1B	8-29-39	
O	WAS - 7A	8-25-39	
P	ADDED NOTE	9-29-39	
Q	PART NOS ADDED	9-29-39	
R	CHGD DIM FROM 1/8 TO 9/16	11-8-40	
S	ADDED NOTE	11-8-40	
T	ADDED GENERAL NOTE	11-8-40	
U	ADDED NOTE 17 & "FOR END CHORDS RIB SHEET BRDW AS"	4-18-41	

C.O. 6629

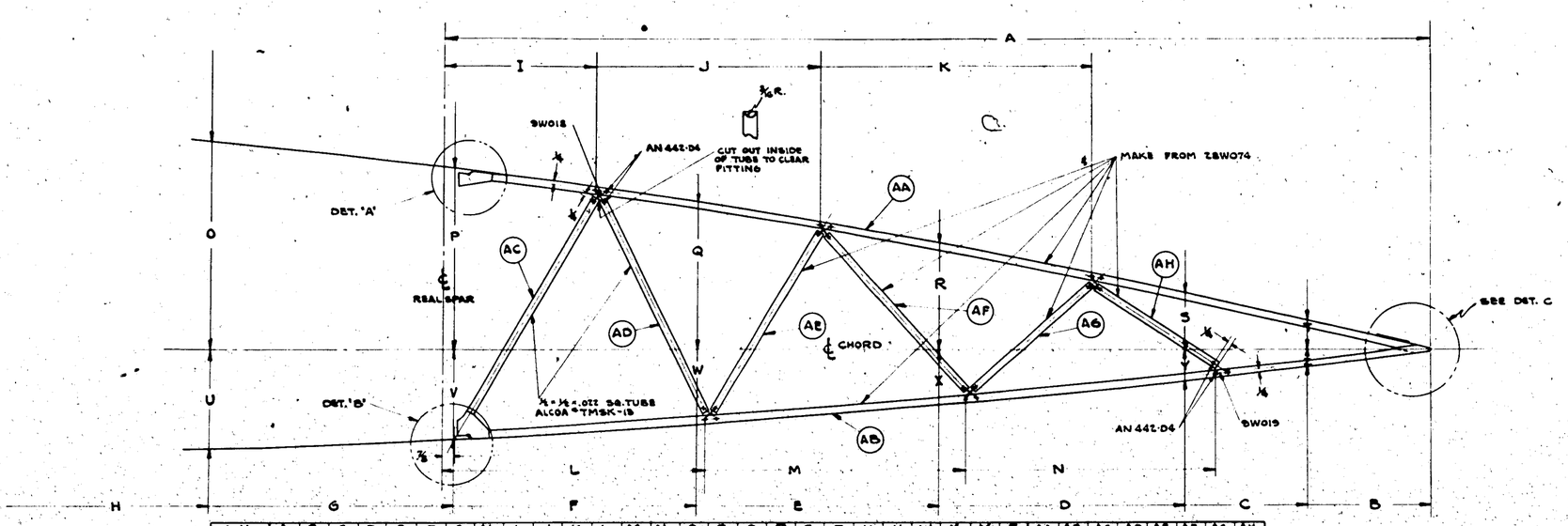
BREWSTER C.O. OF 7-28-40

BREWSTER C.O. 206

C.O. 19440

C.O. 30904 AUG 28-43

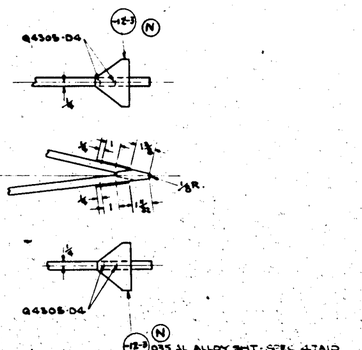
ALL CONTOUR DIMS UNLESS OTHERWISE NOTED



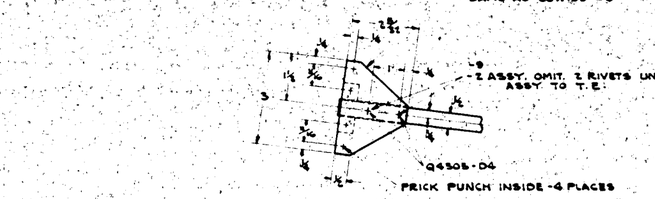
L.H.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
Z8W1048-9	7.398	179.05	170.08	161.15	145.22	126.32	107.42	83.52	12.18	29.09	46.97	20.09	40.18	83.24	16.15	14.04	11.43	8.27	4.48	2.29	7.84	7.02	5.82	4.38	2.43	1.32	-14	-15	-16	-17	-18	-19	-20	-21
-8	174.42	170.84	168.81	159.17	141.48	123.80	106.11	88.43	11.91	28.80	45.97	19.66	39.37	82.86	15.81	13.78	11.19	8.10	4.35	2.29	7.69	6.88	5.70	4.24	2.38	1.29	-23	-25	-24	-25	-26	-27	-28	-29
-7	172.90	170.48	168.94	157.51	138.76	123.27	104.81	87.34	11.66	27.91	47.97	19.26	38.94	82.84	15.48	13.47	10.94	7.93	4.26	2.29	7.53	6.75	5.58	4.15	2.33	1.27	-30	-31	-32	-33	-34	-35	-36	-37
-6	171.38	172.80	163.88	155.15	138.00	120.78	103.80	86.16	11.42	27.54	46.96	18.85	37.75	84.67	15.18	13.18	10.75	7.76	4.17	2.26	7.36	6.60	5.47	4.06	2.28	1.24	-38	-39	-40	-41	-42	-43	-44	-45
-5	169.85	170.32	161.81	153.29	136.76	118.23	101.19	83.16	11.18	26.75	45.96	18.44	36.94	54.68	14.82	12.89	10.50	7.59	4.08	2.21	7.20	6.45	5.35	3.97	2.23	1.22	-46	-47	-48	-49	-50	-51	-52	-53
-4	168.33	168.16	159.74	151.33	134.51	117.70	100.89	84.07	10.94	26.16	44.96	18.04	36.16	53.29	14.49	12.61	10.26	7.41	3.99	2.17	7.04	6.31	5.23	3.88	2.18	1.19	-54	-55	-56	-57	-58	-59	-60	-61
-3	166.80	166.97	157.67	148.37	131.78	114.18	97.58	80.99	10.69	25.58	43.96	17.64	35.34	52.10	14.16	12.32	10.03	7.26	3.90	2.13	6.88	6.17	5.11	3.80	2.13	1.16	-62	-63	-64	-65	-66	-67	-68	-69
-2	165.28	165.80	156.61	147.41	131.04	114.66	98.28	81.90	10.45	25.00	42.96	17.24	34.54	50.91	13.84	12.04	9.80	7.09	3.80	1.98	6.72	6.03	4.99	3.71	2.08	1.13	-70	-71	-72	-73	-74	-75	-76	-77

L.H. RIB SHOWN - R.H. OPP.

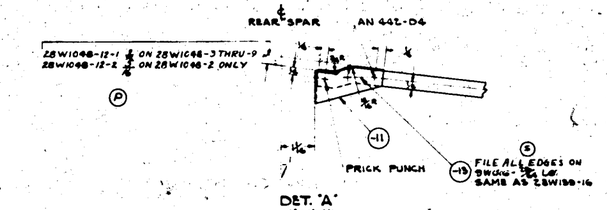
(O) (N-1 / N-2) .032 AL. ALLOY SH. SPEC. 47A10 (CONDITION A) ALLOY 24A SAME AS Z8W139-26



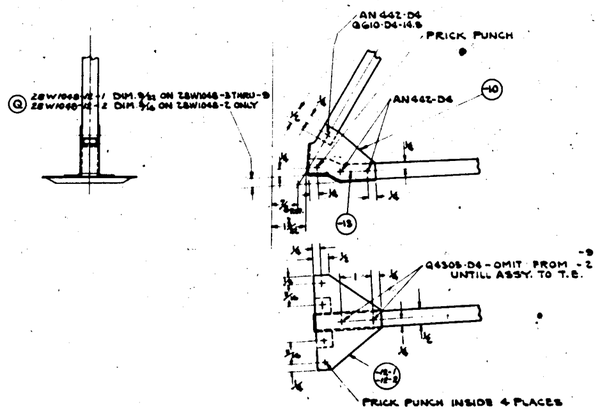
DET. C



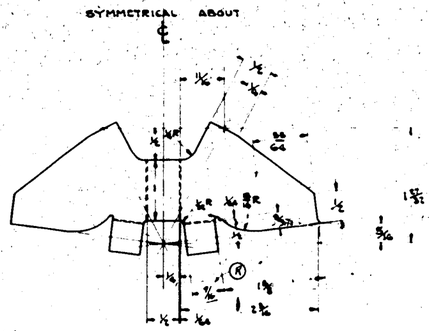
Z8W1048-9	Z8W1048-8	Z8W1048-7	Z8W1048-6	Z8W1048-5	Z8W1048-4	Z8W1048-3	Z8W1048-2
PART NO. REQ.	PART NO. REQ.	PART NO. REQ.	PART NO. REQ.	PART NO. REQ.	PART NO. REQ.	PART NO. REQ.	PART NO. REQ.
Z8W1048-10 1	1	1	1	1	1	1	1
-11 1	1	1	1	1	1	1	1
(N) -12-1 2	2	2	2	2	2	2	2
-12-2 2	2	2	2	2	2	2	2
Z8W1048-14 1	Z8W1048-22 1	Z8W1048-30 1	Z8W1048-38 1	Z8W1048-46 1	Z8W1048-54 1	Z8W1048-62 1	Z8W1048-70 1
-15 1	-23 1	-31 1	-39 1	-47 1	-55 1	-63 1	-71 1
-16 1	-24 1	-32 1	-40 1	-48 1	-56 1	-64 1	-72 1
-17 1	-25 1	-33 1	-41 1	-49 1	-57 1	-65 1	-73 1
-18 1	-26 1	-34 1	-42 1	-50 1	-58 1	-66 1	-74 1
-19 1	-27 1	-35 1	-43 1	-51 1	-59 1	-67 1	-75 1
-20 1	-28 1	-36 1	-44 1	-52 1	-60 1	-68 1	-76 1
-21 1	-29 1	-37 1	-45 1	-53 1	-61 1	-69 1	-77 1
Q440 D4-M5 1	1	1	1	1	1	1	1
SW018 5	5	5	5	5	6	5	5
SW019 1	1	1	1	1	1	1	1
Z8 W1048-18 1	1	1	1	1	1	1	1
(N) -12-1 2	2	2	2	2	2	2	2
-12-2							Z8W1048-2 2



DET. 'A'
6" = 1'-0"

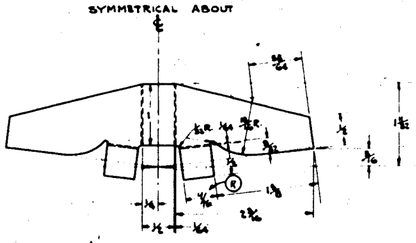


DET. 'B'
6" = 1'-0"



FLAT PATTERN -10-
12" = 1'-0"

.038 AL ALLOY SH. - SPEC. 47A10 (CONDITION A) ALLOY 24A ALL BEND RADII 3/32 SAME AS Z8W139-17



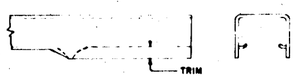
FLAT PATTERN -11
12" = 1'-0"

.038 AL. ALLOY SH. - SPEC. 47A10 (CONDITION A) ALLOY 24A ALL BEND RADII 3/32 SAME AS Z8W139-18

FINISH-
Z-P-GD FOR PBY-1
Z-P-GD FOR PBY-2 & FUTURE

(T)

GENERAL NOTE. WHERE RIB MEMBERS MADE FROM SECTION Z8W074 HAVE LIPS BENT OUT (AT FWD. & AFT ENDS OF RIB), CRACKS MAY OCCUR WHERE CRACKS ARE FOUND, FLANGES MUST BE TRIMMED OFF TO REMOVE CRACKS. WHEN TRIMMING, CARE MUST BE USED SO THAT ENOUGH MATERIAL REMAINS TO PROVIDE RIVET EDGE DISTANCE.



-9	1.22
-8	1.20
-7	1.17
-6	1.14
-5	1.12
-4	1.09
-3	1.07
-2	1.04
Z8W1048-2 PART NO.	REQ'D.

WEIGHTS

FINISH CODE	
Z	CHEMICAL TREATMENT
P	P-17 PRIMER
ZGP	ALUMINIZED PRIMER
C	CADMIUM PLATE

GP-GREEN PRIME

AN442-D4
Q4305-D4

PBY-2 Mk	Z8W023	Z8A	
Z8-8AMC	Z8W023-1		
Z8-5PA	Z8W023-2		
PBY-3B	Z8W023	Z8A	
PBY-4A	Z8W023	Z8A	
PBY-5	Z8W023-1	A7	
PBY-4	Z8W023		-8
PBY-3	Z8W023-1		-7
PBY-3	Z8W023		-6
PBY-2	Z8W023-2	A66Y3	-5
PBY-2	Z8W023		-4
PBY-1	Z8W023-2		-3
PBY-1	Z8W023	Z8W1048-1	-2

(U)

NOTE

THE TOLERANCE FOR RIB AND NOSE RIB ASSEMBLIES SHALL BE ± 1/16 ON ALL CONTOUR DIMENSIONS UNLESS OTHERWISE SPECIFIED

REPLACES

REPLACED BY

LIMIT ON 3-PLACE DECIMALS UNLESS OTHERWISE SPECIFIED ± .010

APPROVED 6-21-39 DATE

NOTED CALCT. ACT DT

SCALE NOTED

AC

NAVY

MATERIAL

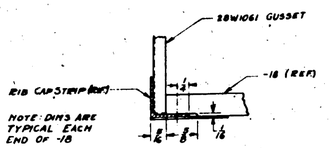
CONSOLIDATED AIRCRAFT CORP. BUFFALO, N.Y.

O.H.	MODEL	NEXT ASSY	REQ	NOTED	
REQUIREMENTS PER AIRPLANE			MAT.	PARTS LIST PER ASSY	
NOTED	NOTED	NOTED		6-21-39	
SPEC.	HEAT TREAT	FINISH		DRAFT CHECK STAT ENG	

NAME RIBS - WING - OUTER PANEL TRAILING EDGE

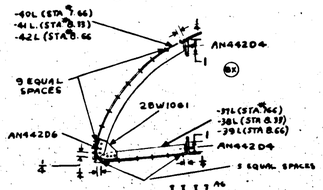
SIZE J DWG. NO. Z8W1048

H 500

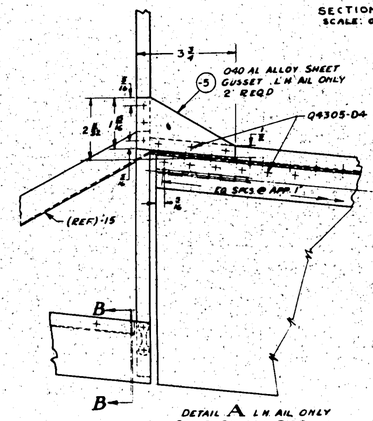


L.E. SKIN - LOWER SURF. (REF.) DETAIL

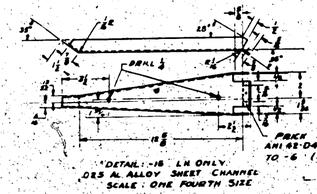
NOTE:
MAKE -37, -38, -39, -40, -41, -42 FROM Y-E-ASSY.



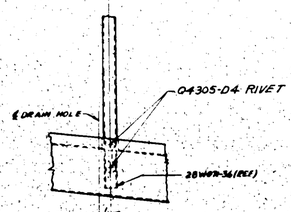
SECTION H-H
SCALE: ONE FOURTH SIZE



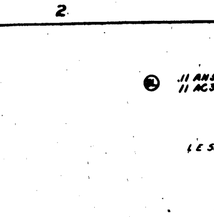
DETAIL A L.H. AIL ONLY
SCALE: ONE HALF SIZE

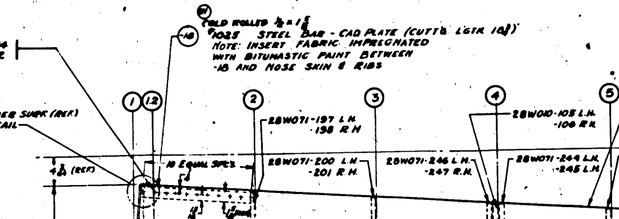


*DETAIL: -18 L.H. ONLY
.025 AL ALLOY SHEET CHANNEL
SCALE: ONE FOURTH SIZE

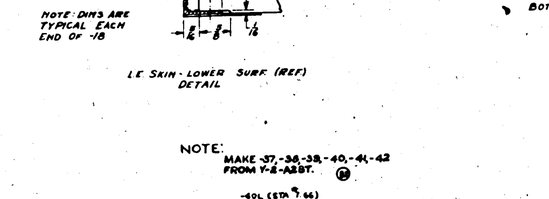


DETAIL C
SCALE: ONE HALF SIZE





SECTION E-E
SCALE: ONE FOURTH SIZE

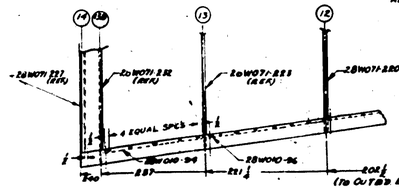


SECTION BB
SCALE: FULL SIZE

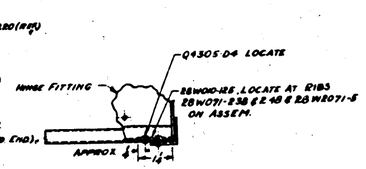
DETAIL -11
.064 AL ALLOY CLIP
ALL BEND RADII

SECTION G-G
NOT TO SCALE

VIEW X-X
SCALE: FULL SIZE



DETAIL G
SHOWING AFT INBOARD CORNER OF 28W0101
NOTE
THE REMAINDER OF 28W0101, NOT SHOWN IN THIS DETAIL, IS OPPOSITE TO 28W0101



DETAIL 'S' OF RIB ATTACHMENT AT HINGE STATION
DETAIL SHOWING INSTALL O

INCORPORATED BY ASR CHG NO. 44 PBY-5 S.O. 273-A

INCORPORATED BY ASR CHG NO. 44 PBY-5 S.O. 273-A

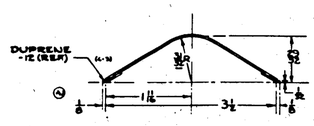
LAST	ALTERATION	DATE	BY
BU	CANCELED 8 @ -273 3 @ -274 AND 5 @ -275 INVERTED - 16 CARD OUT. Y8 WAS 1/4	8-1-41	
BV	CHG. 28W1010-121 OR 8 REQ'D. @ 82.5 & 97½ AFT WASH'R 1/4 DIA	8-8-41	
BW	ADDED (NOT ALL) 28W5016 (21) CHGD 28W5015-24 TO	8-21-41	
BX	Q4305-04 28W1010-121 OR 8 REQ'D @ 82.5 & 97½ AFT WASH'R 1/4 DIA	8-8-41	
BR	ADDED RIBS AT 37½ & 66.93 & W2061 (NOT REQ. FOR -32 -36 -39) -46, -41 (-43 NYA 28BT) WAS (W 5401-46 A 9-7) WT CHG. NC'S	9-1-41	
BY	DWG. 1/8 WAS 3/16 WAS 1/4 WAS 1/8 IN DETAIL OF 28W1010 IRR. NO WT CHG	9-27-41	
BZ	MAT. FOR -121 (1/8 - ALT 1/32 1/4) WAS (1/16 1/32) (ALT. .040 ALT ALCLAD ANGLES, BAR, ROD) (SAE 4130 - 37 1/4 & 4-4041 MAT. FOR -32 -36 -39) -46, -41 (-43 NYA 28BT) WAS (W 5401-46 A 9-7) WT CHG. NC'S	9-1-41	

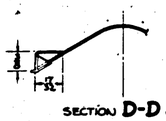
S.O. 7811C			
BREWSTER S.O. 308	BR	TRACED UP TO DATE	8-20-39
	BS	CHG'D SIZE OF DRAIN HOLES TO 1/16	8-25-39
	BG	PBY-5 ADDED DRAIN HOLE NOTE ADDED	8-25-39
BREWSTER S.O. 308	BH	19 EQUAL SPACES IN BAYS E-F, 18 WAS 8 EQUAL SPACES	11-5-40
BREWSTER S.O. 308	BI	ADDED AN 515-3-D10 -6 TO 28W	
BREWSTER S.O. 307	BJ	AN 520-10-8 WAS AN 520-10-6	11-8-40
		IN SAME SPACE OF DWG.	11-8-40
BREWSTER S.O. 273	BK	9 1/16 WAS 9 5/16	12-2-40
BREWSTER S.O. 177	BL	ADDED AN 520-10-14 SCREW AC 960-1032 NUT TO 28W2032	12-2-40
		ADDED 28W2010-1001 REIN END	12-2-40
BREWSTER S.O. 363	BO	CHG'D. -16 DIM. 8 WAS 7 5/8	
PBY-5 S.O. 331-A	BP	ADDED 28C5005	8-11-41
ALL 28'S S.O. 38904	BQ	ADDED NOTE ON CONT. DWG.	8-18-41
PBY-5 CO 46	BR	CHG'D. TRIM FLANGE ANGLE 3/16 TO 1/32	8-12-41
28SME S.O. 38948	BS	ADDED NEXT ASS'Y AND NOTES FOR 28-SNE	9-12-41
28-SMA S.O. 38935	BT	ADDED NEXT ASS'Y 28SNA	9-20-41
		ADDED NEXT ASS'Y 28SMC	9-24-41
		CHG'D NEXT ASS'Y OF 28SMC FROM 28W1701 TO 28W1734	9-24-41

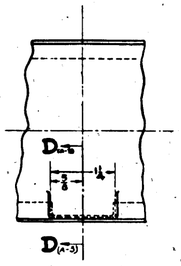
28W0071-197 L.H. -198 R.H.
28W0071-200 L.H. -201 R.H.
28W0071-246 L.H. -247 R.H.
28W0071-244 L.H. -245 R.H.
28W0071-205 L.H. -206 R.H.
28W0071-206 L.H. -207 R.H.
28W0071-H L.H. -12 R.H.
28W0071-209 L.H. -210 R.H.
28W0071-212 L.H. -213 R.H.
28W0071-234 L.H. -235 R.H.
28W0071-236 L.H. -237 R.H.
28W0071-215 L.H. -216 R.H.
28W0071-218 L.H. -219 R.H.
28W0071-221 L.H. -222 R.H.
28W0071-239 28W946-7
28W0071-202 28W5014-8 REP
28W0071-248 28W5014-9 REP
28W0071-205 28W5014-10 REP
28W0071-208 28W5014-11 REP
28W0071-5 28W5014-12 REP
28W0071-7 28W5014-13 REP
28W0071-9 28W5014-14 REP
28W0071-236 28W5014-15 REP
28W0071-217 28W5014-16 REP
28W0071-220 28W5014-17 REP
28W0071-223 L.H. 28W2071-2 L.H. 28W5014-18 REF.
28W0071-232 R.H. 28W2071-3 L.H. 28W5014-19 REF.
28W0071-227 R.H. 28W2071-4 L.H.
28W0010-101 L.H. -102 R.H.
28W0010-101 L.H. -102 R.H.
28W0010-99 L.H. -100 R.H.
28W0010-99 L.H. -100 R.H.
28W0010-97 L.H. -98 R.H.
28W0010-97 L.H. -98 R.H.
28W0010-97 L.H. -98 R.H.
28W0010-95 L.H. -96 R.H.
28W0010-95 L.H. -96 R.H.
28W0010-103 L.H. -104 R.H.
28W0010-105 L.H. -106 R.H.
28W0010-107 L.H. -108 R.H.
28W0010-109 L.H. -110 R.H.
28W0010-111 L.H. -112 R.H.
28W0010-113 L.H. SKIN -120 R.H.
28W0010-114 L.H. -115 R.H.
28W0010-116 L.H. -117 R.H.
28W0010-118 L.H. -119 R.H.
28W0010-121 L.H. -122 R.H.
28W0010-123 L.H. 28W0010-90 R.H. SKIN -23 IS SAME AS 28W0010-89 EXCEPT FOR TAB CONTROL CUTOUT
28W0010-126 L.H. -127 R.H. SPAR
28W0010-112 R.H. TOP
28W0010-114 L.H. BOTTOM
NOTE: 28W0010-116-20 SAME AS 28W0010-IN & -115 RESPECTIVELY BUT CUT OFF 8 3/8 FROM AFT END.
28W0010-101 L.H. -102 R.H.
28W0010-101 L.H. -102 R.H.
28W0010-99 L.H. -100 R.H.
28W0010-99 L.H. -100 R.H.
28W0010-97 L.H. -98 R.H.
28W0010-97 L.H. -98 R.H.
28W0010-97 L.H. -98 R.H.
28W0010-95 L.H. -96 R.H.
28W0010-95 L.H. -96 R.H.
28W0010-92 R.H. -4 SAME AS 28W0010-91 L.H. (REF) BUT CUT OFF 3 1/4 FROM INBD END
28W0010-103 L.H. -104 R.H.
28W0010-105 L.H. -106 R.H.
28W0010-107 L.H. -108 R.H.
28W0010-109 L.H. -110 R.H.
28W0010-111 L.H. -112 R.H.
28W0010-113 L.H. SKIN -120 R.H.
28W0010-114 L.H. -115 R.H.
28W0010-116 L.H. -117 R.H.
28W0010-118 L.H. -119 R.H.
28W0010-121 L.H. -122 R.H.
28W0010-123 L.H. 28W0010-90 R.H. SKIN -23 IS SAME AS 28W0010-89 EXCEPT FOR TAB CONTROL CUTOUT
28W0010-E BEARING
28W0010-31 L.H. -46 R.H. RISE RIB
28W0010-51 L.H. -66 R.H. TRUSS RIB
28W0010-7 BEARING-BRACKET
28W0010-8 L.H. -9 R.H. ANGLE
28W0010-10 L.H. -11 R.H. ANGLE
28W0010-18 WEB
28W0010-181 FILLER
INSTALL AS PER DETAIL AT HORN 28W0010
28W2024 - INSTALL COUNTER WEIGHT
28W2028 - TAB - AILERON L.H. ONLY
28W2071-H L.H. -12 R.H.
28W2071-5 L.H. 28W5014-12 REF
28W2071-7 28W5014-13 REF
28W2071-9 28W5014-14 REF
28W5014-18 REF.
28W5014-19 REF.
AN520-10-16 OR AC 365-1032 OR
AN520-10-16 OR AC 365-1032 OR
AN515-08R10
AN515-08R8
AN515-08R12
AN515-08R16
AN515-08R20
AN515-08R24
AN515-08R28
AN515-08R32
AN515-08R36
AN515-08R40
AN515-08R44
AN515-08R48
AN515-08R52
AN515-08R56
AN515-08R60
AN515-08R64
AN515-08R68
AN515-08R72
AN515-08R76
AN515-08R80
AN515-08R84
AN515-08R88
AN515-08R92
AN515-08R96
AN515-08R100
AN515-08R104
AN515-08R108
AN515-08R112
AN515-08R116
AN515-08R120
AN515-08R124
AN515-08R128
AN515-08R132
AN515-08R136
AN515-08R140
AN515-08R144
AN515-08R148
AN515-08R152
AN515-08R156
AN515-08R160
AN515-08R164

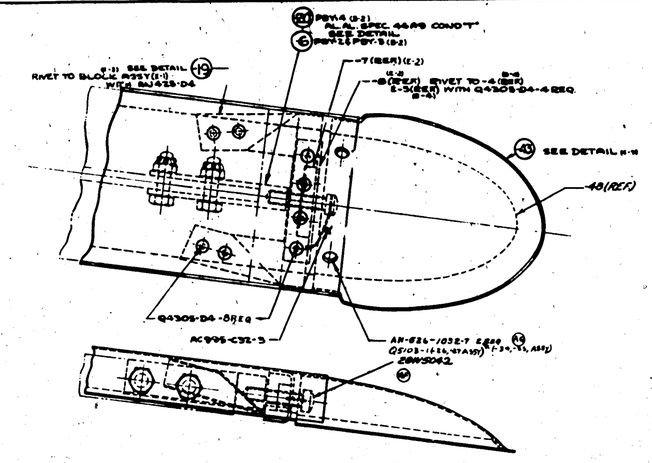
E.O.	LET	AL REVISION	DATE	BY	CHKD
	AM	REVISED -14 (REQ'D) PER ENGR ORDER			
		ADDED -14 SPECIAL NUTPLATE (-14 SHORT)			
		& -14 (REQ'D) INCREASED FROM 2 TO 3 SPACES EACH			
		SWITH -13 (REQ'D) NEW WORK	8-21-41		

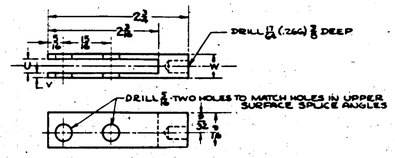
E.O.	LET	CHANGE	DATE	BY
		"GRADE UP TO DATE"	2-25-42	
	X	X DIM FOR -3 WAS 4 7/64	4-14-42	
		CHG'D X DIM FOR -3 WAS 4 7/64	4-14-42	
	EF	CHG'D X DIM FOR -9 & -21 WERE PLUS	4-30-42	
58831	AB	-48 NOTE ADDED -15 WAS 4 PER SHIP	10-19-42	
59277	AC	ON -24 -13, -031 WAS 000	2-20-43	
51144A	AD	REMOVED -14, 4 REQ ON -12 WAS 2 REQ'D	2-24-43	
44177	AE	CHANGED ON FACE OF NWCG 4% AC 366 DF 1038 WAS AC 366 DF 638, QS 103-1 WAS AN 515-6-4, 851031 WAS 10368-6	6-18-43	
	AF	28W5042 WAS 28W5018-18(L) NO WT CHG	8-24-43	
	AG	28W183-13 WAS 28W1183-8 IN -10 SUBASSY AN526-1032-7 (8 IN WAS) QS103-1 (8 IN -13 IN -10 SUBASSY WAS IN -24637 SUBASSY. -48 IN -43 SUBASSY WAS IN -34 & 35 SUB-ASSY. -181-21 WERE IN -36437 SUB ASSY. -4, 6, 19 (EA) & 6306 305-04 (8) IN -24 SUBASSY WERE IN -30 SUBASSY-3 -48, -19 (EA) & 6306-04 (8) IN -32 SUBASSY WERE IN -31 SUBASSY-3 -17, -19 (8) IN -38 SUBASSY WERE IN -46 SUBASSY -30, 38, -191 (EA) IN -37 SUBASSY WERE IN -43 SUBASSY. 6305-04 (8) EA AC 366 DF 1032 (4) EA AN 525-03 (8) EA IN -36, -37 SUB ASSY'S WERE IN -24 & -43 SUBASSY'S, -181-43 IN GEN NW USE IN -24 & -31 SUB ASSY'S ADDED -12 (2 REQ'D) TO -24 & 37 SUB ASSY'S. NO WT. CHG.	9-2-43	
	AH	REMOVED NOTE "-48 IDENTICAL TO -15 EXCEPT ETC" NO WT CHG.	9-24-43	
A49068	AJ	IN MATERIAL COLUMN ON SHEET 1 ADDED -6 & -18 DIM WERE 1/16 (2 PLACES) W/ CHG. NEC.	11-23-43	
	AK	IN -32 & 33 ASSYS. (8 EA) WAS 0.040 IN -34 & 35 ASSYS. (8 EA) WAS 0.051 NO WT CHG.	12-29-43	
	AL	REM. AC 366 DC-02-3/16 FROM -36 & -37 SUB ASSYS. ADDED AC 366 DC-02-3/16 -50 & -51 ASSYS (GEN NW) NO WT. CHG.	12-14-43	
	AM	IN DETAIL -10 & -43 ZONE AS ANGLE 73 WAS 0.49 3/50 WT CHG. NEC.	3-10-44	



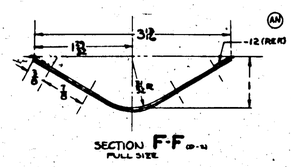


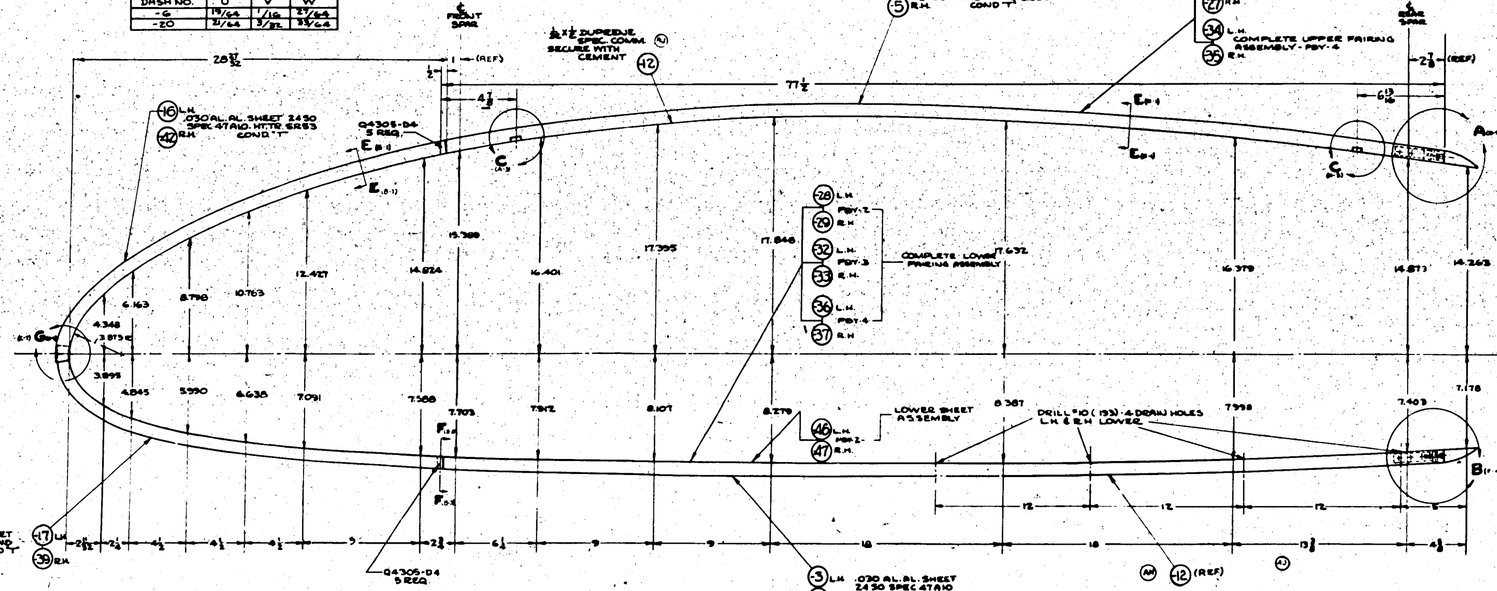


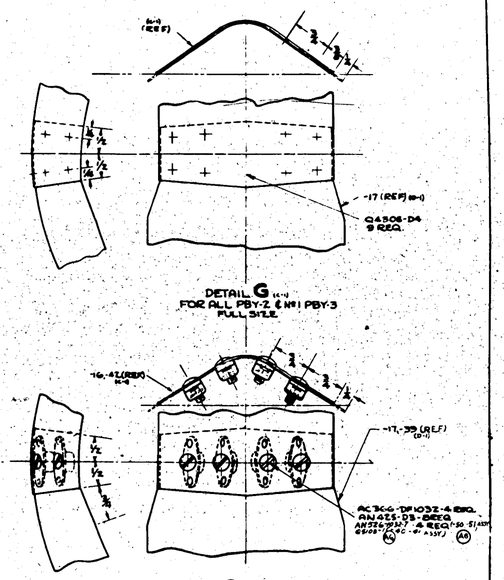


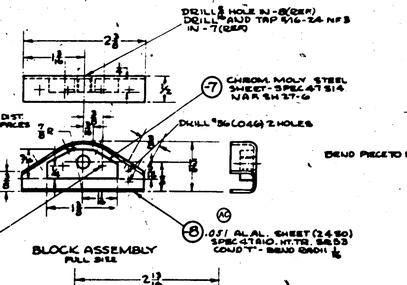


DASH NO.	U	V	W
-6	19/64	1/16	27/64
-20	21/64	3/32	35/64

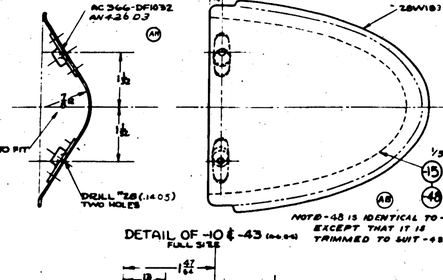


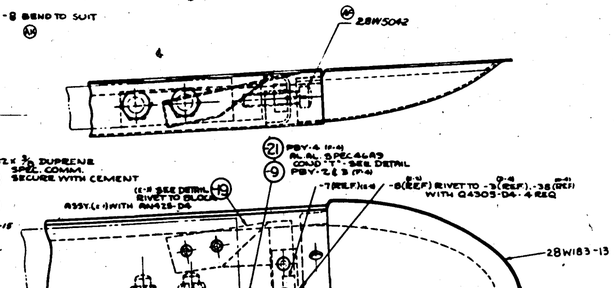






DASH NO.	X	Y	Z
-9	5/8	1/16	1/8
-21	11/16	3/32	1/8





FINISH CODE	
Z	ANODIC TREATMENT
P	P 59 PRIMER
AM	ALUMINUM PRIMER
C	CADMIUM PLATE

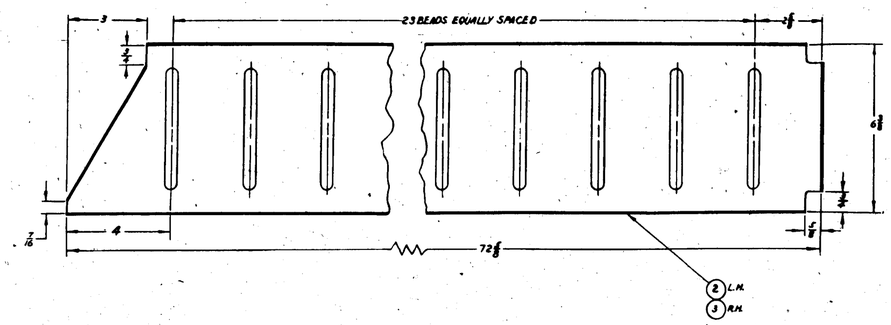
GR GREEN PRIME
YE - YELLOW ENAMEL

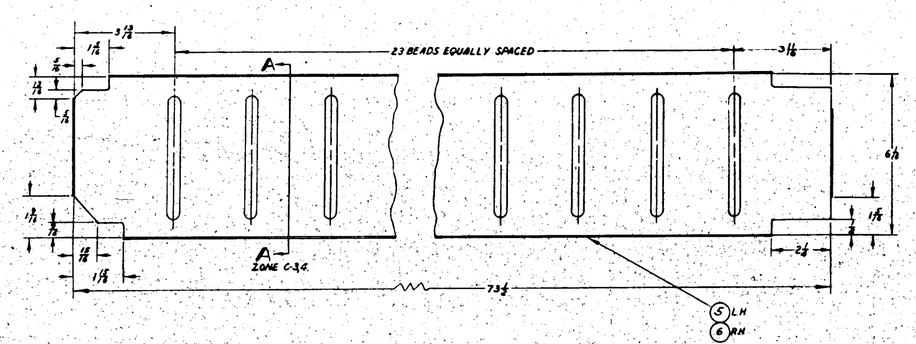
NOTE:
1 FINISH 2 P-2YE ON TOP-INSIDE FOUT
2 P 26 ON BOTTOM-INSIDE 40UT TO CONFORM WITH ADJACENT SURFACES
6-9-26-21 B-P-26P
2 COMPLETE FAIRING ASSYS ARE C-1, 40, -91, 341-51

| | | |

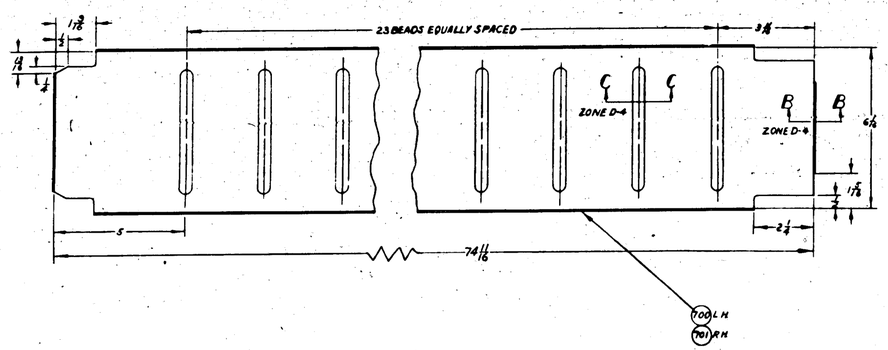
MOT	ALTERATIONS	DATE	BY
7	REVISED DRAWING REVISED AS FOLLOWS: REVISED PER LETTER ADDED 4 OPEN HOLES AT STA 6.5 ADDED 2 NOTES & 1 SYM. ADDED -5 NOTES & 1 SYM. TO AGREE WITH INSTALL. DRAWINGS LIMITS & ARRANGE. & REVISED NOTE ON DRAWING TO READ A/N	12-31-47	

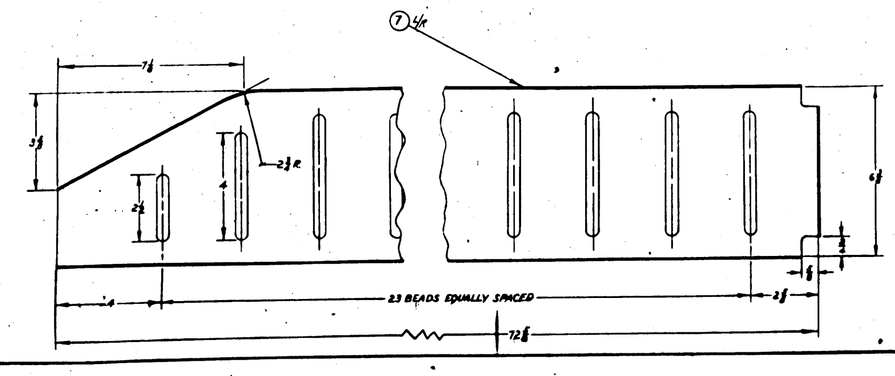
MOT	ALTERATIONS	DATE	BY





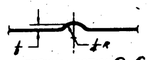
FORWARD





TYPICAL SECTION A-A
12-1-0
ZONE C-6

TYPICAL SECTION B-B
12"=1'-0"
ZONE D-4



TYPICAL SECTION C-C
12-1-0
ZONE D-5

DASH NO.	CAT. SET	QUT.
-1	B	1
-2	A	1
-700	5-6	1
-701	5-6	1

NOTE.
1. ALL RELIEF RADII 1/4
2. BEND RADII 1/2
3. 28W2040-28-3 MAY BE MADE FROM 28W1040-20 AND -5-6-700 & -701 MAY BE MADE FROM 28W1040-30

APPROVED FOR TOOLING BY
Howard
8/14/43

MCR 276 ℄ ON
MCR 276 ℄ SH

TO MCR 276
TO MCR 276

MCR 276 ℄ ON
MCR 276 ℄ ON

TO MCR 276
TO MCR 276

PART NO.	STOCK	MATERIAL	SPEC	LAY OUT REQ'D	LAY OUT REQ'D	LAY OUT REQ'D	LAY OUT REQ'D	ZONE
-701	0.080	AL ALLOY SHEET	AN-QQ-A-250/5					D-E4
-5	0.080	ALCLAD 24ST						D-E4
-7	0.064	ALCLAD 24ST						D-E4
-1	0.74	ALCLAD 24ST						C-E4
-701	0.78	ALCLAD 24ST						C-E4
-6	0.80	ALCLAD 24ST						C-E4
-6	0.80	ALCLAD 24ST						C-E4
-5	0.78	ALCLAD 24ST						C-E4
-2	0.78	ALCLAD 24ST						C-E4

PARTS LIST PER ASSY.

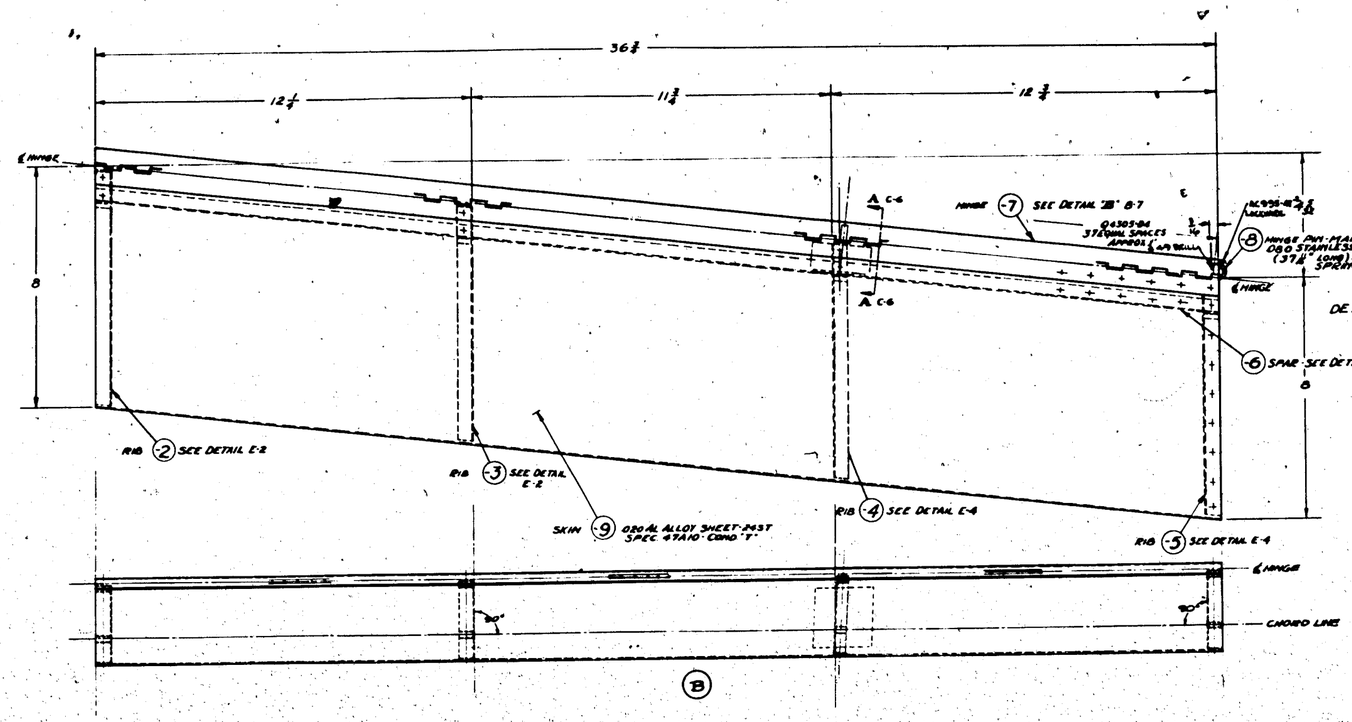
NEXT ASSY		LEAVE
HEAT TREAT	FINISH	DRAFT / CHECK / STRUCT / DAT / APPROV / DATE

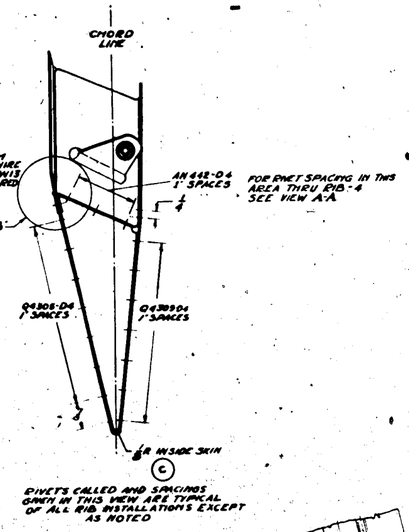
NAME REINFORCING SHEETS-WING CENTER SECT-TRAILING EDGE

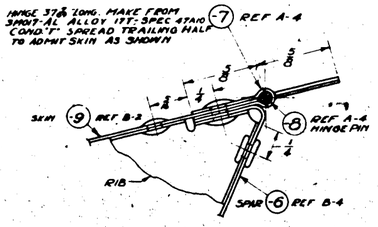
SIZE J — 28W2040

H 503

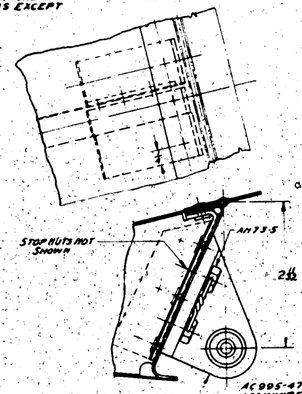
28W2040 R

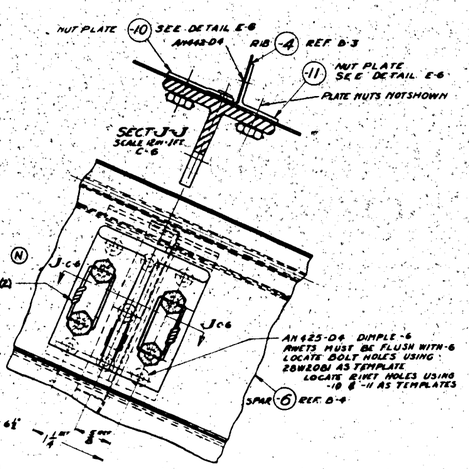


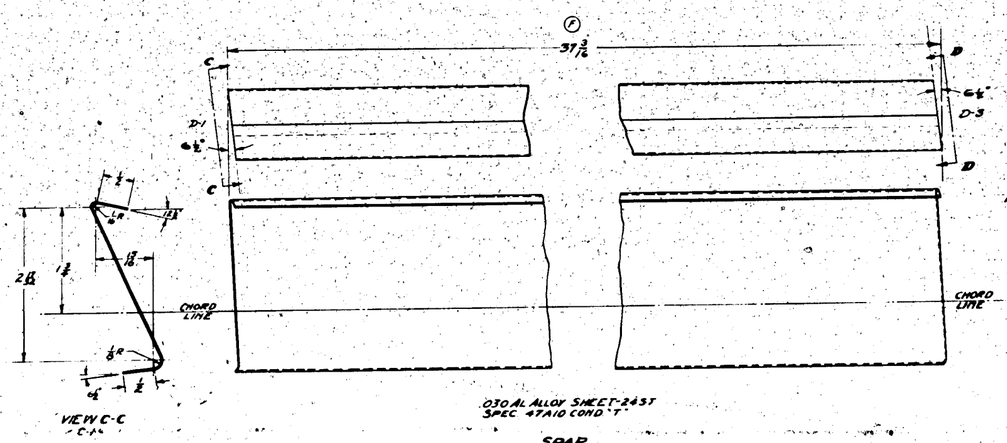


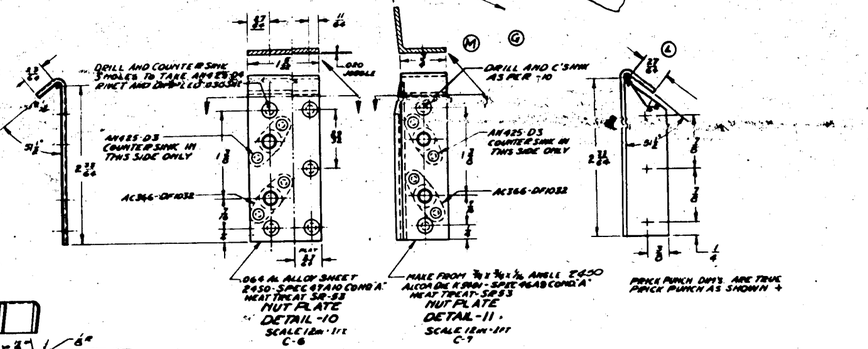


TYPICAL RIB INSTALLATION
DETAIL "B"
SCALE 8 & 4 = 1 FT
A-4

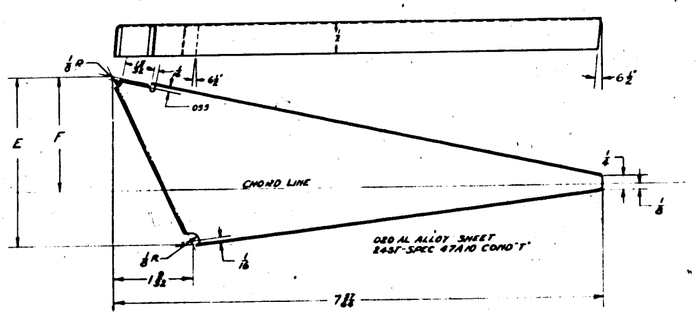




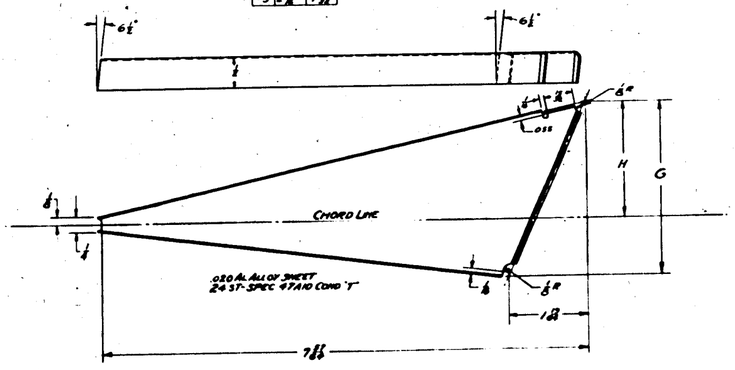




MARK	E	F
-2	2 1/16	1 1/8
-3	2 5/16	1 1/4



MARK	G	H
-4	2 1/8	1 1/4
-5	2 3/8	1 1/4



NOTE -
FINISH INTERIOR Z-P-2AL
FINISH EXTERIOR Z-P-2AL GP
EXCEPT AS NOTED - ALL BEND RADII TO BE 1/8

MARK	PART NO.	QTY	NOMENCLATURE
PRY-5A	28W208-05	1	
PRY-5B	28W210-05	1	
PRY-4	28W201-05	1	
PRY-3	28W202-05	1	
PRY-2	28W203-05	1	
PRY-1	28W204-05	1	

NOTES	MOTED	MOTED	MOTED

TAB-AILERON

28W2082

H 504

TYPICAL BUTTON STUD INSTALL.

TYPICAL CUTOFF

CUT SKIN ATTACHMENT FLANGES OF -22-23-30-31-36-37-46-47-48-49 -50-51-58-59 GUSSETS BACK IN LINE WITH EDGE OF GUSSETS. THIS EDGE OF GUSSETS IS MADE STRAIGHT TO PERMIT CUTTING ON SHEAR BRAKE

FLAT PATTERN -50,-51 (REF.)

VIEW "A"

11 HOLES ON TOP FOR 28W5022-5 AC224-3 Q7012-M13-014 LOCATE HOLES AS PER WING TEMPLATES

Q6R06-2 SPACER - USE AT ALL FLANGE RIVETS EXCEPT IN REGION OF GUSSETS

Q6R06-2 SPACER - USE AT ALL LOWER FLANGE RIVETS EXCEPT AT CLIPS AND GUSSETS

NOTE:- ATTACH -48,-49 TO BULKHEAD FLANGE WITH UPPER RIVET ONLY AT WING ASSEMBLY SWING -48,-49 OVER TIGHT AGAINST STRINGER AND ADD LOWER RIVET (-48,-49 TO APPLY TO -0,-1 ASSY ONLY)

NOTE:- TRIM GUSSETS TO CLEAR STRINGERS BY APPROX. 1/8

NOTE:- -10 TO -21, INC., TO BE 1/4 x 1.000 EXTR. SEE ALCOA No. KB049

OMIT -54 TO 57 INCL. FOR -550 & -551 ASSYS ONLY USE Q7006-D12-066 (88) SPACERS IN RIBBON WHERE -54 TO -57 ARE REMOVED (-550 & -551 ONLY)

NOTE: THESE DIM'S TYPICAL FOR ALL UPR GUSSETS

SECTION A-A

NOTE:
PARTS -36,-37,-54,-55,-57 COVERED BY CHANGE LETTERS, S, T, & U TO BE HEAT TREATED TO NAVY SPEC. SR53

PBY-5 E.O. 28300

-60 & -61 EFFECTIVE ON -0 & -1 ASSYS ONLY. 28W1105-76 & -77 TO REPLACE -60 & -61 ON 28W2105-550 & -551 ASSYS

DETAIL OF -44 & -45

PART NO.	X	Y	Z
-44	30°	60°	1/8
-45	60°	60°	1/8

SECTION B-B

GENERAL NOTES:-
RIVETS TO BE AN 426-D6 UNLESS OTHERWISE NOTED

FOR AIRFOIL ORDINATES SEE DWG. NO 28W101

USE AN426-D4 RIVETS AT -40-41-44 & -45

ALL SHEET IS ALCLAD 2451 SPEC. 41A8 COND A EXCEPT AS NOTED ON -36, -37, -54, -55, -57.

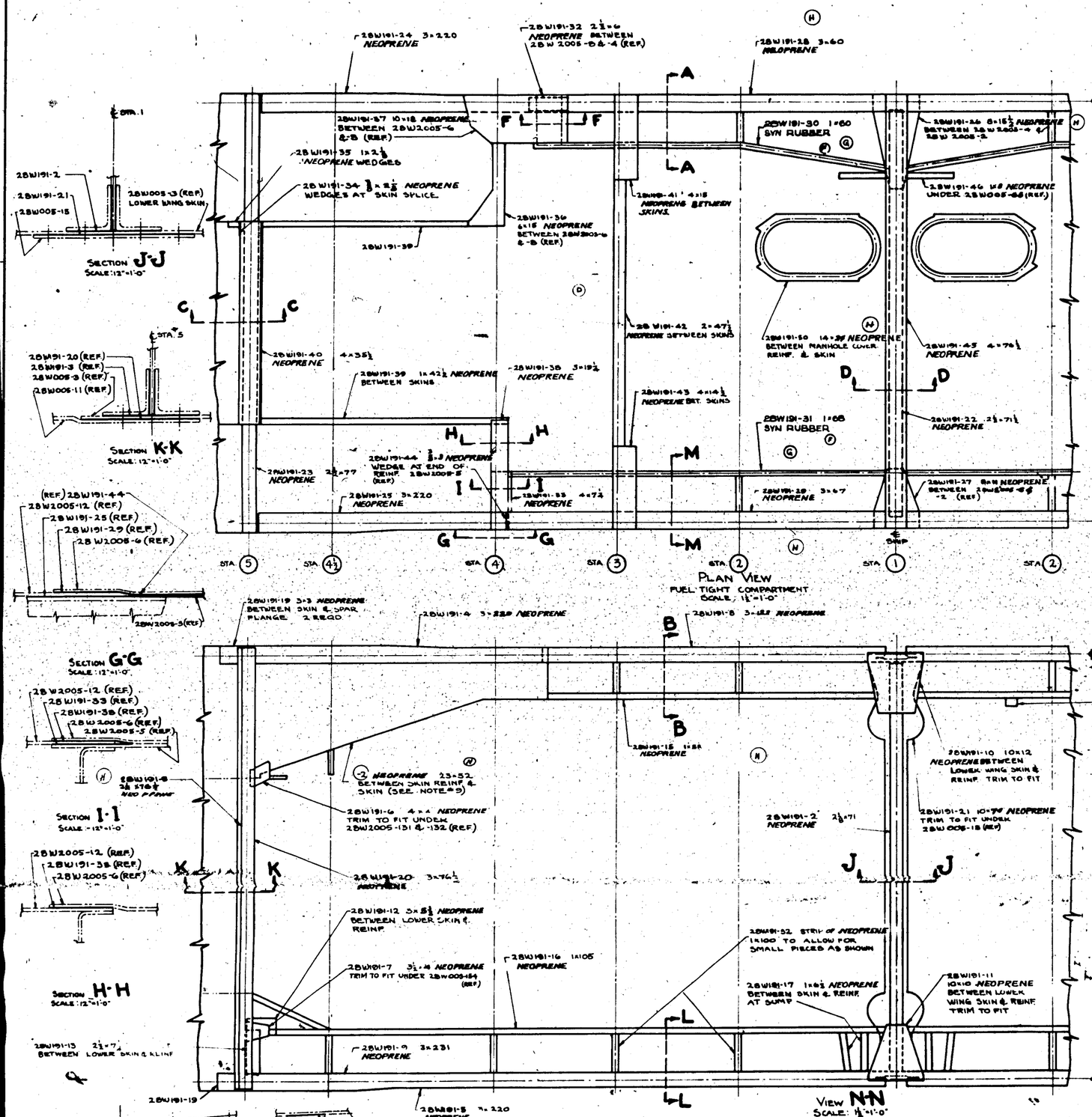
ALL AL ALLOY EXTRUSIONS SPEC. 46A8 (COND. T) ALLOY 24-T EXCEPT AS NOTED. HEAT TREAT ALL COND A MATERIAL PER SPEC SR53. RIVETS ALL AL. ALLOY EXCEPT AS NOTED

REPLACES	
REPLACED BY	
LIMIT ON PROVISIONING RELEASE	-0
APPROVED	7-8-37
SCALE	1"=1'0" & 1"=2'0"
MATERIAL	NOTED
SPEC	NOTED
HEAT TREAT	NOTED
FINISH	Z-P
CONSOLIDATED AIRCRAFT CORP. BUFFALO N.Y.	
NAME	BULKHEAD-WING-STA. 3
DWG NO.	28W2103-1
SIZE	J
CODE	28W2103

28W2103 R

H 505

LET	ALTERATION	DATE	BY
B	TRACED		
C	REVISED ITEM 49 IN SHT. NOTES & ADDED NOTE		
D	ON FACE OF DWG. ADD RUBBER		
	STRIKE NEOPRENE W/ SYN.		
	REVISED GEN'L NOTES 8 & 9 TO READ		
	NEOPRENE WITH SYN RUBBER		
	ADDED DATA TO W1566, 1568, 1570		
E	ADDED -53 MOTOR & UNION		
	TYDAGA MATERIAL SC-58		
	DATA TO W1566, 1568, 1570		
F	FLOW COAT FACE OF DWG. ETC.		
	ADDED 28BW191-506 (SH 2) TO ASSY.		
	ADD "BETWEEN STRINGERS 6 & 7"		
	AFTER 28W191-36 ADD MIX CHG.		
G	ADDED 28W191-506-513		
	ADDED "-53 PER 28W191-506"		
	28W191-506-51 "TO NOTE 14"		
	ADD WT. CHG.		
H	ON FACE OF DWG. ADD IN GENERAL NOTES FOR 28W2191, -2 & -3 NEOPRENE 2M-066 STRIP SHALL BE GRADE 2" HARD 3/16" RUBBER 2M-068 TYPE IV GRADE B" CMED MATERIAL NOTES ON FACE OF DWG TO CORRESPOND TO CHG. ON 28W191. IN GENERAL NOTES 6,8,10,14,15 AND TYP. RUBBER TO NEOPRENE STRIKE, TYPE IV GR B NO WT CHG.		



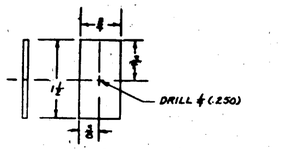
GENERAL NOTES

14. BETWEEN STRINGERS 6 & UPPER SURFACE PLATING (F) USE PRESSTITE IMPREGNATED LINEN TAPE FOR GASTIGHTING EXCEPT FOR USE OF 28W191-506-51
1. NEOPRENE WAS FORMERLY KNOWN AS DUPRENE.
2. CUT NEOPRENE APPROX. 1/8 TO 1/4 OVERSIZE & TRIM AFTER RIVETING.
3. ALL NEOPRENE SHALL BE 1/8" THICK.
4. PROVIDE 1/4 GAL. DUPRENE CEMENT PER SHIP TO BE USED ON ASSY.
5. 28W191-49 REPRESENTS SMALL VARIABLE PIECES USED FOR GAS TIGHT CORNERS — ALLOW A SHEET 24×96 PER SHIP.
6. 28W191-47 NEOPRENE SHEET 2½×23 BETWEEN STA #5 BLKHD VERTICALS (END) AND SPAR WEB — INSTALL ON ASSY.
7. USE THIOKOL WHEREVER NECESSARY
8. (H) SCARF NEOPRENE WHERE NECESSARY
9. -8 IS IDENTICAL WITH 28W191-14 ; -2 IS IDENTICAL WITH 28W191-18
10. 28W191-52 NEOPRENE STRIP 1×100 TO BE USED UNDER STRINGERS WHERE REINFORCING & MISC. PLACES
11. "DUPRENE" CEMENT PURCHASED FROM LINDSAY & HALL CO LOS ANGELES, CALIF.
12. (D) ALL NEOPRENE TO BE IN ACCORDANCE WITH CAC REPORT 2M-048, TYPE II, GRADE B.
13. (A) NEOPRENE TO BE INSTALLED BETWEEN BRACKETS -31, -40 & -51 & -39 STRS & THE SKIN ON THE LOWER SURFACE OF THE 6TH FUEL CELL AREA CELL.

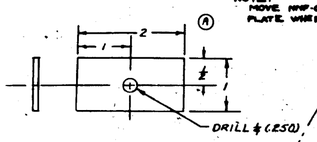
28W191-506	1				
28W2191-2	2				
28W191-53	18				
28W191-52	2				
-50	2				
-49	1				
-47	4				
-46	2				
-45	1				
-44	2				
-43	2				
-42	2				
-41	2				
-40	4				
-39	2				
-38	2				
-37	2				
-36	2				
-35	2				
-34	2				
-33	2				
-32	2				
-31	2				
-30	2				
-29	2				
-28	2				
-27	2				
-26	2				
-25	2				
-24	2				
-23	2				
-22	2				
-21	2				
-20	2				
-19	2				
-18	2				
-17	2				
-16	2				
-15	2				
-14	2				
-13	2				
-12	2				
-11	2				
-10	2				
-9	2				
-8	2				
-7	2				
-6	2				
-5	2				
-4	2				
-3	2				
-2	2				
-1	2				

H 506

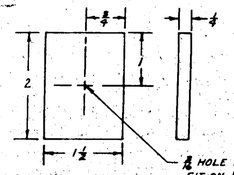
28-BAR	28W 2005				
28-BAR	28W 191				
28-BAR	28W 191				
28-BAR	28W 191				
PRT-1	28W191-1				
PRT-2	28W191-2				
PRT-3	28W2005				
PRT-4	28W2005				
PRT-5	28W2005				
PRT-6	28W2005				



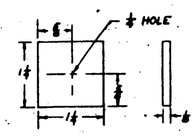
DETAIL -7
2 REQ'D FINISH-C-P
12"=1'-0"



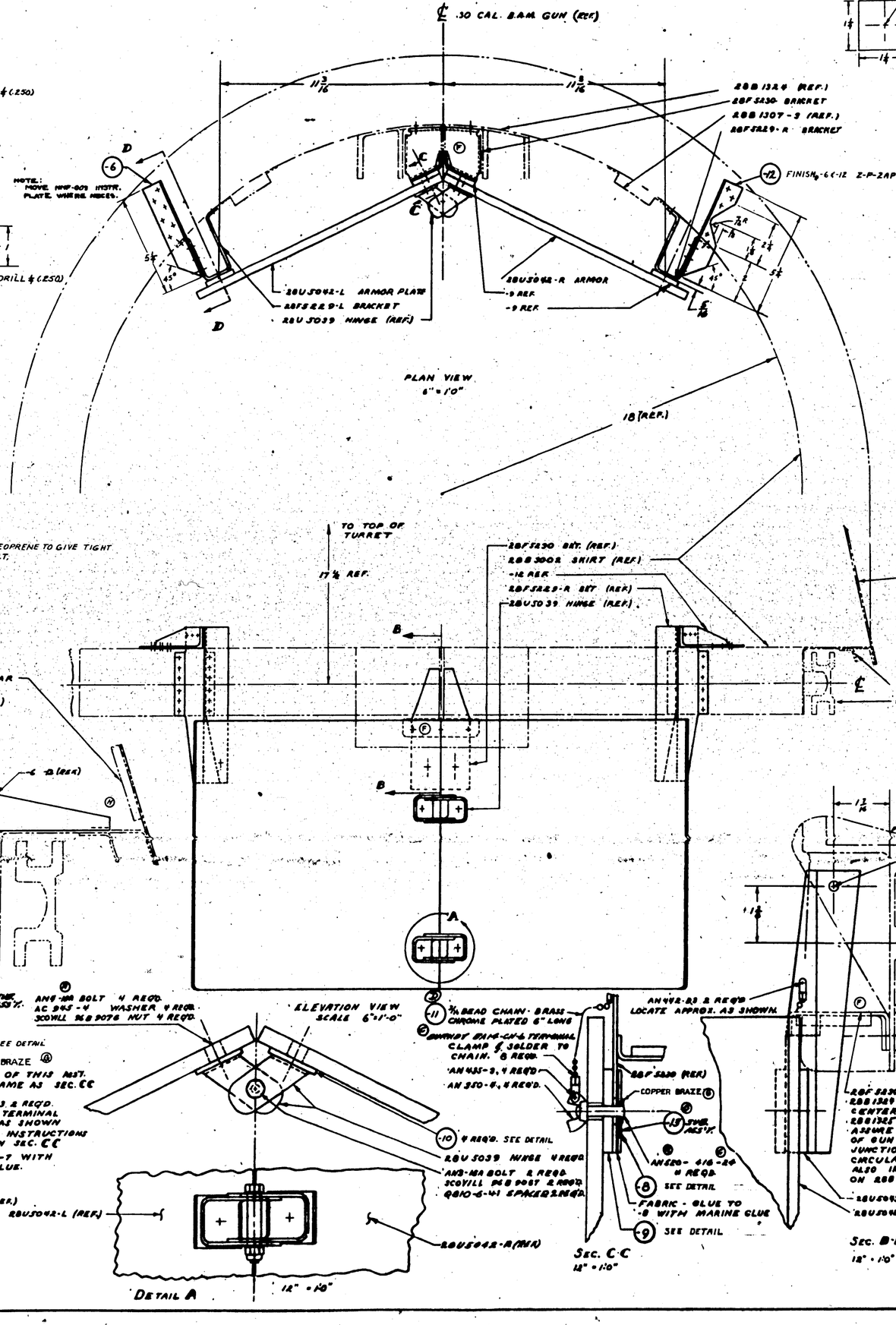
DETAIL -8
2 REQ'D FINISH. C.P.
12"=1'-0"



DETAIL -9
4 REQ
12"=1'-0"



DETAIL -10
12"=1'-0"



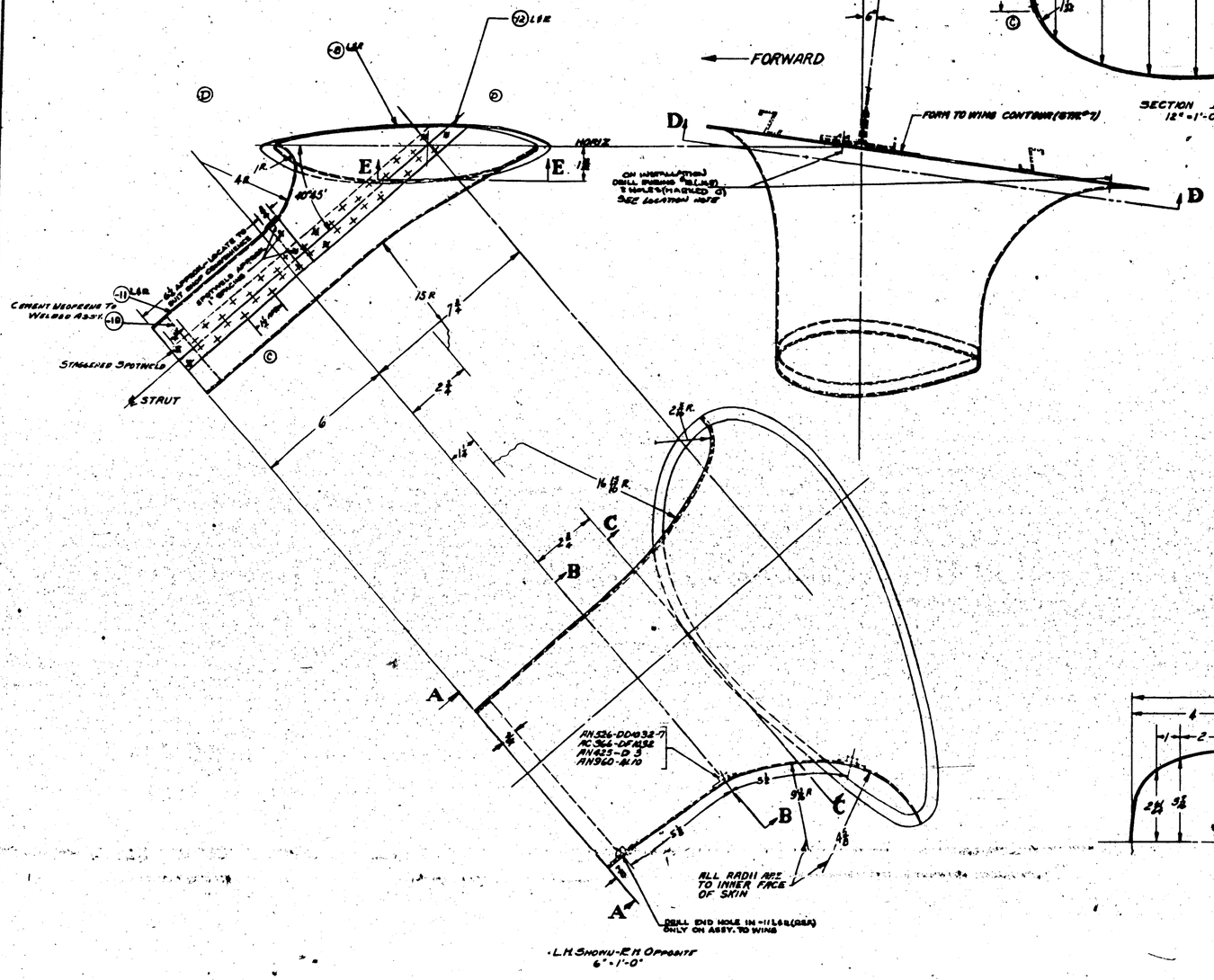
LTR	DESCRIPTION	DATE	APP	MFT	ELECTROTYPES	DATE	APP
J	-8 REQ'D ADDED -9 REQ'D ADDED	5-4-43					
K	ADD -1 ASSY. -2 ASSY. -3 ASSY. -4 ASSY. -5 ASSY. -6 ASSY. -7 ASSY. -8 ASSY. -9 ASSY. -10 ASSY. -11 ASSY. -12 ASSY. -13 ASSY. -14 ASSY. -15 ASSY. -16 ASSY. -17 ASSY. -18 ASSY. -19 ASSY. -20 ASSY. -21 ASSY. -22 ASSY. -23 ASSY. -24 ASSY. -25 ASSY. -26 ASSY. -27 ASSY. -28 ASSY. -29 ASSY. -30 ASSY. -31 ASSY. -32 ASSY. -33 ASSY. -34 ASSY. -35 ASSY. -36 ASSY. -37 ASSY. -38 ASSY. -39 ASSY. -40 ASSY. -41 ASSY. -42 ASSY. -43 ASSY. -44 ASSY. -45 ASSY. -46 ASSY. -47 ASSY. -48 ASSY. -49 ASSY. -50 ASSY. -51 ASSY. -52 ASSY. -53 ASSY. -54 ASSY. -55 ASSY. -56 ASSY. -57 ASSY. -58 ASSY. -59 ASSY. -60 ASSY. -61 ASSY. -62 ASSY. -63 ASSY. -64 ASSY. -65 ASSY. -66 ASSY. -67 ASSY. -68 ASSY. -69 ASSY. -70 ASSY. -71 ASSY. -72 ASSY. -73 ASSY. -74 ASSY. -75 ASSY. -76 ASSY. -77 ASSY. -78 ASSY. -79 ASSY. -80 ASSY. -81 ASSY. -82 ASSY. -83 ASSY. -84 ASSY. -85 ASSY. -86 ASSY. -87 ASSY. -88 ASSY. -89 ASSY. -90 ASSY. -91 ASSY. -92 ASSY. -93 ASSY. -94 ASSY. -95 ASSY. -96 ASSY. -97 ASSY. -98 ASSY. -99 ASSY. -100 ASSY.	5-4-43					
L	ADD -10 REQ'D.	5-5-43					
M	COPPER BRAZE WAS WELD DO NOT CHG.	7-20-43					
N	LIMITED -2 ASSY FOR TRANSITION TO C-77713 & C-80476 ONLY. NO WT. CHG.	7-30-43					

NOTE:
Δ L ARMOR PLATE #28U5042-L & #28U5042-R TO BE CON'T FURNISHED ON -0 ASSEM; -0 ASSEM FOR P&V-5E-5A ON CONTRACT 70496, & 22 P&V-5A ON CONT. 88476 (SERIAL #04398 TO 04420 INC.)

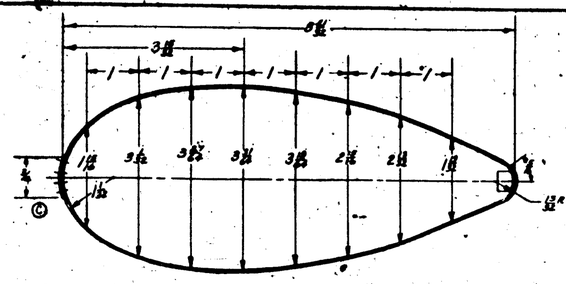
① # L ARMOR PLATE 28U5042 L&R C.A.C. FURNISHED ON -2 ASSEM. -2 ASSEM FOR: P&V-5A & OA-10 ON CONT. 77713 & 30 P&V-5A ON CONT. 88476 (SERIAL #02948 TO 02977 INC.)

USE AN442-D4 RIVET EXCEPT AS OTHERWISE NOTED.

| | | | | |



·L.H. SHOWN-R.H. OPPOSITE
6"=1'-0"



SECTION A-A
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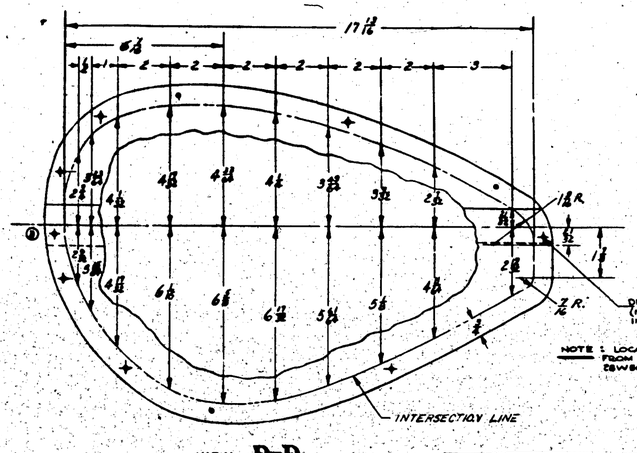
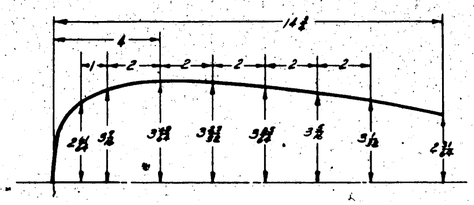
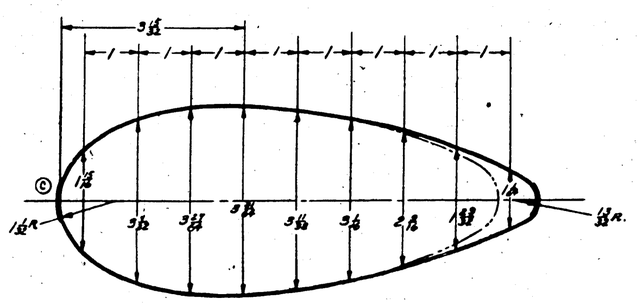


NOTE 1: LOCATE FAIRING HOLES FROM HOLES IN WING. SEE 28W5005 & 28W5016

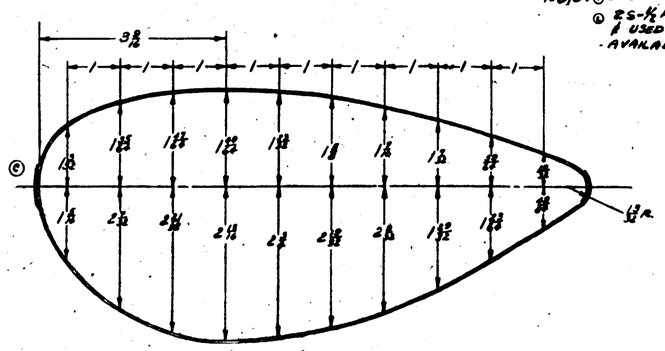
VIEW D-D
6"=1'-0"



SECT. E-E
6"=1'-0"



SECT. B-B
12"=1'-0"



SECT. C-C
12"=1'-0"

NOTE: ① CONTOUR SAME AS 28W075
② 25-S-½ H MATL. MAY BE ANNEALED & USED FOR -8, -11 & -12 UNTIL 250 IS AVAILABLE

FINISH	CODE
Z	ANODIC TREATMENT
P	P-I PRIMER
AP	ALCLAD PRIMED
C	CADMIUM PLATE

ITEM	NOMENCLATURE	MATERIAL	SPEC.
-1	ASSY. FAIRING W.F.		
-2	FAIRING-W.F.	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-3	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-4	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-5	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-6	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-7	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-8	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-9	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-10	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-11	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5
-12	NUT-PLATE	24S-T4 CLAD ALCLAD SHEET	QQ-A-250/5

-1	28W5005	-2	AN526-DD4932-7
-2	28W5016	-3	AC-366-DF4932
-3	28W5075	-4	AN525-D5
-4	28W5076	-5	AN960-416
-5	28W5077	-6	
-6	28W5078	-7	
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-4	28W5580	-5	
-5	28W5581	-6	
-6	28W5582	-7	
-7	28W5583	-8	
-8	28W5584	-9	
-9	28W5585	-10	
-10	28W5586	-11	
-11	28W5587	-12	
-12	28W5588		

-1	28W5589	-2	
-2	28W5590	-3	
-3	28W5591	-4	
-4	28W5592	-5	
-5	28W5593	-6	
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-7	28W5595	-8	
-8	28W5596	-9	
-9	28W5597	-10	
-10	28W5598	-11	
-11	28W5599	-12	
-12	28W5600		

-1	28W5601	-2	
-2	28W5602	-3	
-3	28W5603	-4	
-4	28W5604	-5	
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-8	28W5608	-9	
-9	28W5609	-10	
-10	28W5610	-11	
-11	28W5611	-12	
-12	28W5612		

-1	28W5613	-2	
-2	28W5614	-3	
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-7	28W5619	-8	
-8	28W5620	-9	
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-10	28W5622	-11	
-11	28W5623	-12	
-12	28W5624		

-1	28W5625	-2	
-2	28W5626	-3	
-3	28W5627	-4	
-4	28W5628	-5	
-5	28W5629	-6	
-6	28W5630	-7	
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-11	28W5635	-12	
-12	28W5636		

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-7	28W5643	-8	
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-10	28W5646	-11	
-11	28W5647	-12	
-12	28W5648		

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-2	28W5650	-3	
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-5	28W5653	-6	
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-9	28W5657	-10	
-10	28W5658	-11	
-11	28W5659	-12	
-12	28W5660		

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-5	28W5665	-6	
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-7	28W5667	-8	
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-9	28W5669	-10	
-10	28W5670	-11	
-11	28W5671	-12	
-12	28W5672		

-1	28W5673	-2	
-2	28W5674	-3	
-3	28W5675	-4	
-4	28W5676	-5	
-5	28W5677	-6	
-6	28W5678	-7	
-7	28W5679	-8	
-8	28W5680	-9	
-9	28W5681	-10	
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-11	28W5683	-12	
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-10	28W5694	-11	
-11	28W5695	-12	
-12	28W5696		

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-8	28W5704	-9	
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-10	28W5706	-11	
-11	28W5707	-12	
-12	28W5708		

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-2	28W5710	-3	
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-8	28W5716	-9	
-9	28W5717	-10	
-10	28W5718	-11	
-11	28W5719	-12	
-12	28W5720		

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-2	28W5722	-3	
-3	28W5723	-4	
-4	28W5724	-5	
-5	28W5725	-6	
-6	28W5726	-7	
-7	28W5727	-8	
-8	28W5728	-9	
-9	28W5729	-10	
-10	28W5730	-11	
-11	28W5731	-12	
-12	28W5732		

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-3	28W5735	-4	
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-6	28W5738	-7	
-7	28W5739	-8	
-8	28W5740	-9	
-9	28W5741	-10	
-10	28W5742	-11	
-11	28W5743	-12	
-12	28W5744		

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-2	28W5746	-3	
-3	28W5747	-4	
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-5	28W5749	-6	
-6	28W5750	-7	
-7	28W5751	-8	
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-9	28W5753	-10	
-10	28W5754	-11	
-11	28W5755	-12	
-12	28W5756		

-1	28W5757	-2	
-2	28W5758	-3	
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-7	28W5763	-8	
-8	28W5764	-9	
-9	28W5765	-10	
-10	28W5766	-11	
-11	28W5767	-12	
-12	28W5768		

-1	28W5769	-2	
-2	28W5770	-3	
-3	28W5771	-4	
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-12	28W5780		

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-10	28W5790	-11	
-11	28W5791	-12	
-12	28W5792		

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-7	28W5799	-8	
-8	28W5800	-9	
-9	28W5801	-10	
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-11	28W5803	-12	
-12	28W5804		

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-2	28W5806	-3	
-3	28W5807	-4	
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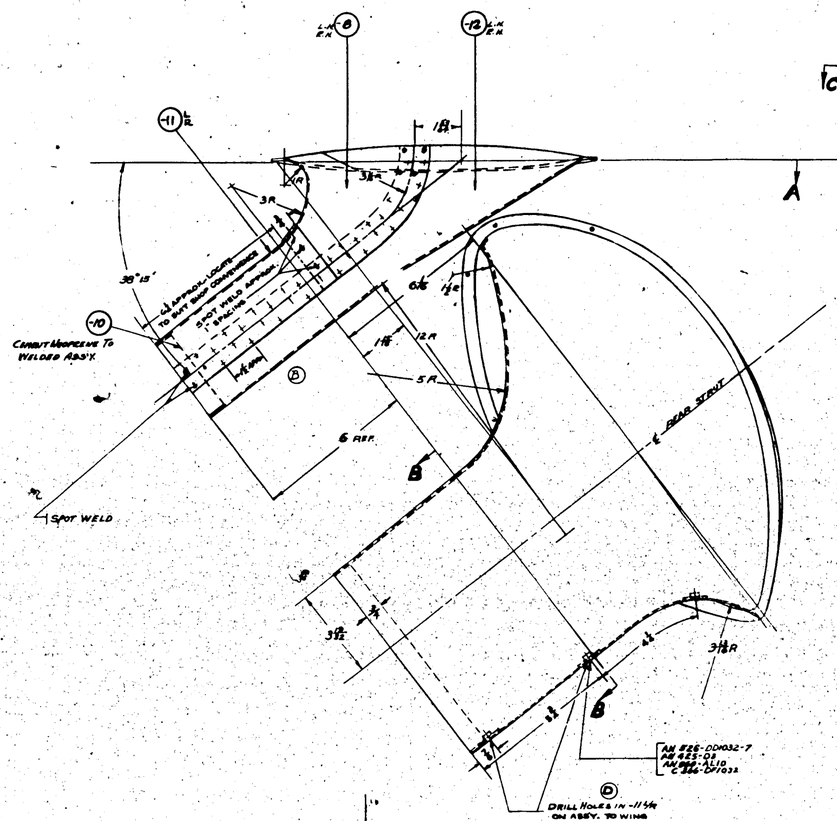
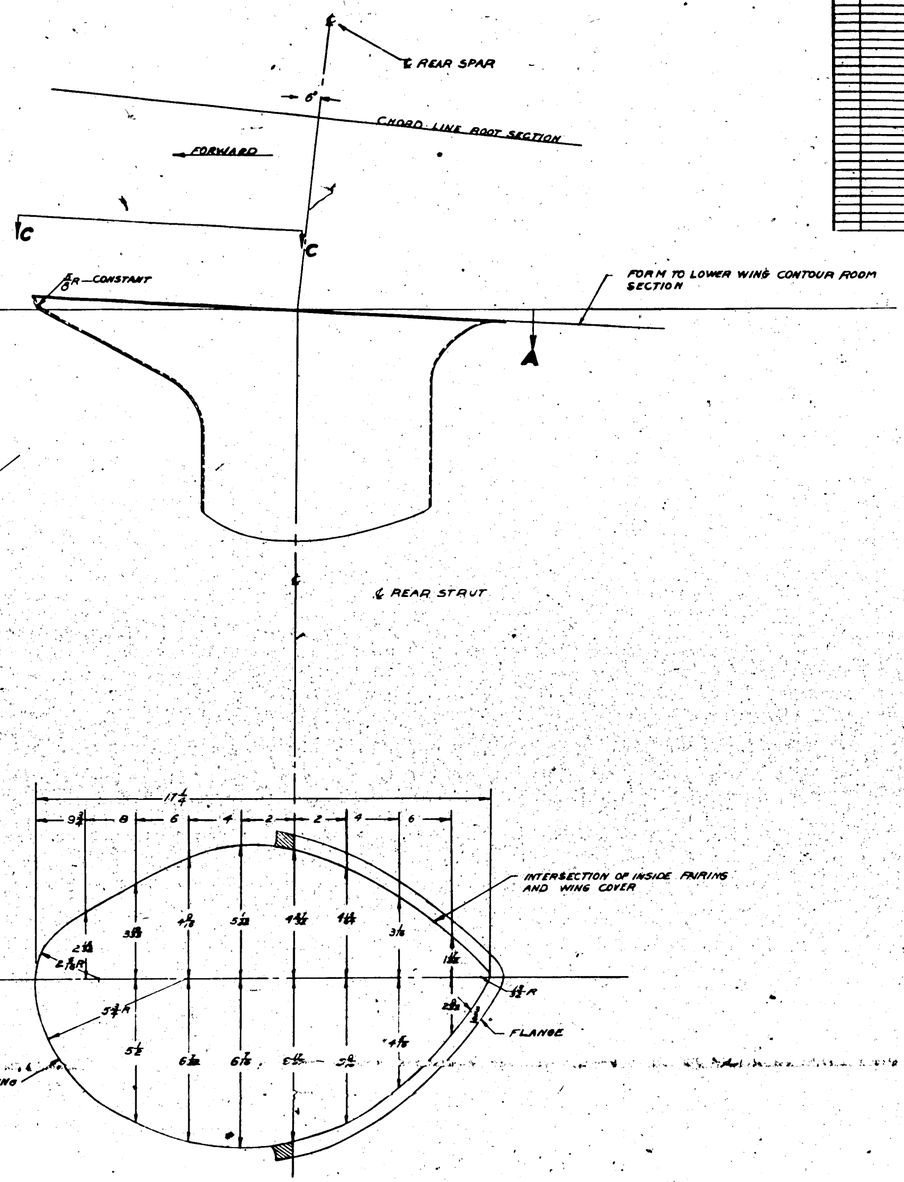
-5	28W5809	-6	
-6	28W5810	-7	
-7	28W5811	-8	
-8	28W5812	-9	
-9	28W5813	-10	
-10	28W5814	-11	
-11	28W5815	-12	
-12	28W5816		

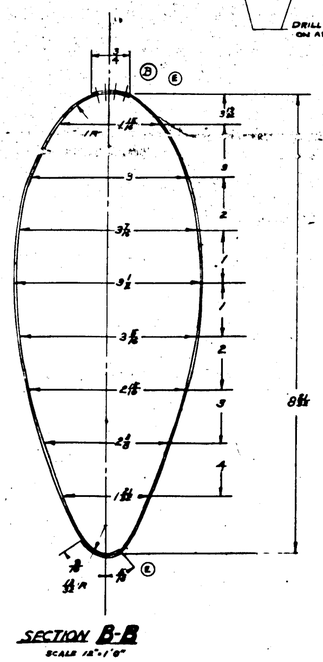
-1	28W5817	-2	
-2	28W5818	-3

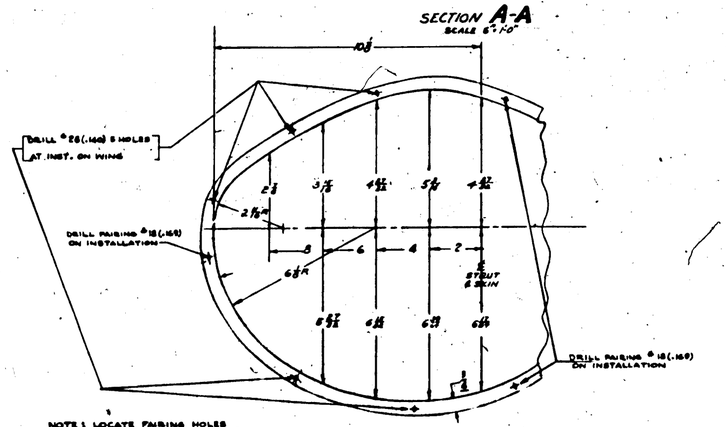
LTR	ALTERATION	DATE	BY
A	ADDED -LH/RH ⊄ R. FROM -11 & -12 W. SPARS (A) & (B)		
B	ADDED NOTE ⑤ TO DRAWING	6-8-51	E.O. A85266
C	-LH/RH MAT'L SPECIFIED FROM B.M. TITLE OF DRAWING	—	—
	Rel. W.T. Ltr.	5-24-51	D
D	Added Drill Holes in ⊄ 5/16 Rear Spar to Strut Web Drill Ends Hole in -11 & -12 Rear Spars to Wing (Rel. W.T. Ltr.)	7-18-51	E.O. A 1856 C
E	Y Changes -11 & -12 Rear Spars -13 & -14 Spar & Removed Joggle in -11. No W.T. Ltr.	7-18-51	E.O. A 1856 C





SECTION A-A
SCALE 6"=1'0"





NOTE: LOCATE FAIRING HOLES FROM HOLES IN WING. SEE 28W5008

VIEW C-C
SCALE 6"=1'-0"

NOTE—
① CONTOUR SAME AS 28W076
② 25-1/2 N MAT'L MAY BE ANNEALED & USED FOR -8, -11, & -12 UNTIL 250 IS AVAILABLE

FINISH CODE
A	ANODIC TREATMENT
P	P-71 PRIMER
XP	ALUMINIZED PRIMER
C	CADMIUM PLATE

PART NO.	STOCK	MATERIAL	SPEC.	PARTS LIST PER ASSY.	LH	RH	LH	RH	LH	RH
					0	-8	-8	-8		
							-11	-11	-12	-12
							-12	-12	-11	-11

ACTUAL PRICE
AN 525-AL10
AN 525-DD1032-7
AN 425-D8

-1	PRY-A	2	SEW ASSY
-2	PRY-A	2	WG SKIN
-3	PRY-A	2	WG SKIN
-4	PRY-A	2	WG SKIN
-5	PRY-A	2	WG SKIN
-6	PRY-A	2	WG SKIN
-7	PRY-A	2	WG SKIN
-8	PRY-A	2	WG SKIN
-9	PRY-A	2	WG SKIN
-10	PRY-A	2	WG SKIN
-11	PRY-A	2	WG SKIN
-12	PRY-A	2	WG SKIN
-13	PRY-A	2	WG SKIN
-14	PRY-A	2	WG SKIN
-15	PRY-A	2	WG SKIN
-16	PRY-A	2	WG SKIN
-17	PRY-A	2	WG SKIN
-18	PRY-A	2	WG SKIN
-19	PRY-A	2	WG SKIN
-20	PRY-A	2	WG SKIN
-21	PRY-A	2	WG SKIN
-22	PRY-A	2	WG SKIN
-23	PRY-A	2	WG SKIN
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-25	PRY-A	2	WG SKIN
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-66	PRY-A	2	WG SKIN
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-68	PRY-A	2	WG SKIN
-69	PRY-A	2	WG SKIN
-70	PRY-A	2	WG SKIN
-71	PRY-A	2	WG SKIN
-72	PRY-A	2	WG SKIN
-73	PRY-A	2	WG SKIN
-74	PRY-A	2	WG SKIN
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-94	PRY-A	2	WG SKIN
-95	PRY-A	2	WG SKIN
-96	PRY-A	2	WG SKIN
-97	PRY-A	2	WG SKIN
-98	PRY-A	2	WG SKIN
-99	PRY-A	2	WG SKIN
-100	PRY-A	2	WG SKIN

-1	PRY-A	2	SEW ASSY
-2	PRY-A	2	WG SKIN
-3	PRY-A	2	WG SKIN
-4	PRY-A	2	WG SKIN
-5	PRY-A	2	WG SKIN
-6	PRY-A	2	WG SKIN
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-92	PRY-A	2	WG SKIN
-93	PRY-A	2	WG SKIN
-94	PRY-A	2	WG SKIN
-95	PRY-A	2	WG SKIN
-96	PRY-A	2	WG SKIN
-97	PRY-A	2	WG SKIN
-98	PRY-A	2	WG SKIN
-99	PRY-A	2	WG SKIN
-100	PRY-A	2	WG SKIN

| | | | | | | |

LTR	ALTERATION	DATE	BY

LTR	DESCRIPTION	ASSY	DR
A	ADDED - NOTE 2 & [illegible]		
B	[illegible]		
C	[illegible]		
D	[illegible]		
E	[illegible]		

C REAR SPAR

6"

CHORD LINE ROOT SECTION

FORWARD

C

C

R—CONSTANT

FORM TO LOWER WING CONTOUR ROOM SECTION

A

A

L.H. F.H.

(8)

L.H. F.H.

(12)

(11) R

1⅛

3½

3R

39° 15'

APPROX. LOCATE TO SUIT SHOP CONVENIENCE

SPOT WELD SPACING APPROX.

(10)

CONDUIT WELDSEAM TO WELDED ASS'Y

6⅝

½R

1⅛

12R

5R

(B)

6 REF.

B

REAR STRUT

SPOT WELD

3½

¾

3½R

4½

B

(D) DRILL HOLES IN -11 5/64 ON ASSY. TO WING

AN 526-DD1032-7
AN 425-D8
AN 960-416
C 344-DP1032

¢ REAR STRUT

17½

9½ 8 6 4 2 2 4 6

INTERSECTION OF INSIDE FAIRING AND WING COVER

2½

2⅛R

3⅛

4⅛

5⅛

4½

4½

3⅛

1⅛

3¼R

3¼R

2⅛

½R

FLANGE

INSIDE FAIRING

5½

6⅛

6⅛

6⅛

5⅛

4⅛

SECTION A-A
SCALE 6"-1'-0"

(D) (E)

¾

1R

3½

9

8

9⅛

2

8⅛

3⅛

2

2⅝

3

1⅝

1

⅜

⅜

(E)

SECTION B-B
SCALE 12"-1'-0"

10⅜

DRILL #28(.140) 8 HOLES AT INST. ON WING

DRILL FAIRING #18(.169) ON INSTALLATION

2⅛

3⅛

4½

5⅛

4½

2⅛R

8

6

4

2

STRUT ℄ 2 DIA

6⅛R

6½

6⅝

6⅝

6⅝

DRILL FAIRING #18(.169) ON INSTALLATION

NOTE 1 LOCATE FAIRING HOLES FROM HOLES IN WING. SEE 28W5008

VIEW C-C
SCALE 6"-1'-0"

NOTE—
(D) CONTOUR SHAPE AS 28W076
(E) 25-½ N MATL MAY BE ANNEALED & USED FOR -8, -11, & -12 UNTIL 2SO IS AVAILABLE

ITEM	PART NO.	STOCK	MATERIAL	SPEC.	-8	-9	-11	-12
-1	PRY-R	AS WASH			1	1	1	1
-1	PRY-R	AS WASH			1	1	1	1
-R	PRY-R	AS WASH			1	1	1	1
-L	PRY-R	AS WASH			1	1	1	1
-2	[illegible]	[illegible]			1	1	1	1
-2	[illegible]	[illegible]			1	1	1	1
-2	[illegible]	[illegible]			1	1	1	1
-2	[illegible]	[illegible]			1	1	1	1
-3	[illegible]	[illegible]			1	1	1	1
-4	[illegible]	[illegible]			1	1	1	1
-5	[illegible]	[illegible]			1	1	1	1
-6	[illegible]	[illegible]			1	1	1	1
-7	[illegible]	[illegible]			1	1	1	1
-8	[illegible]	[illegible]			1	1	1	1
-9	[illegible]	[illegible]			1	1	1	1
-10	[illegible]	[illegible]			1	1	1	1
-11	[illegible]	[illegible]			1	1	1	1
-12	[illegible]	[illegible]			1	1	1	1
-13	[illegible]	[illegible]			1	1	1	1
-14	[illegible]	[illegible]			1	1	1	1
-15	[illegible]	[illegible]			1	1	1	1
-16	[illegible]	[illegible]			1	1	1	1
-17	[illegible]	[illegible]			1	1	1	1
-18	[illegible]	[illegible]			1	1	1	1
-19	[illegible]	[illegible]			1	1	1	1
-20	[illegible]	[illegible]			1	1	1	1
-21	[illegible]	[illegible]			1	1	1	1
-22	[illegible]	[illegible]			1	1	1	1
-23	[illegible]	[illegible]			1	1	1	1
-24	[illegible]	[illegible]			1	1	1	1
-25	[illegible]	[illegible]			1	1	1	1
-26	[illegible]	[illegible]			1	1	1	1
-27	[illegible]	[illegible]			1	1	1	1
-28	[illegible]	[illegible]			1	1	1	1
-29	[illegible]	[illegible]			1	1	1	1
-30	[illegible]	[illegible]			1	1	1	1
-31	[illegible]	[illegible]			1	1	1	1
-32	[illegible]	[illegible]			1	1	1	1
-33	[illegible]	[illegible]			1	1	1	1
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-46	[illegible]	[illegible]			1	1	1	1
-47	[illegible]	[illegible]			1	1	1	1
-48	[illegible]	[illegible]			1	1	1	1
-49	[illegible]	[illegible]			1	1	1	1
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-54	[illegible]	[illegible]			1	1	1	1
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-59	[illegible]	[illegible]			1	1	1	1
-60	[illegible]	[illegible]			1	1	1	1
-61	[illegible]	[illegible]			1	1	1	1
-62	[illegible]	[illegible]			1	1	1	1
-63	[illegible]	[illegible]			1	1	1	1
-64	[illegible]	[illegible]			1	1	1	1
-65	[illegible]	[illegible]			1	1	1	1
-66	[illegible]	[illegible]			1	1	1	1
-67	[illegible]	[illegible]			1	1	1	1
-68	[illegible]	[illegible]			1	1	1	1
-69	[illegible]	[illegible]			1	1	1	1
-70	[illegible]	[illegible]			1	1	1	1
-71	[illegible]	[illegible]			1	1	1	1
-72	[illegible]	[illegible]			1	1	1	1
-73	[illegible]	[illegible]			1	1	1	1
-74	[illegible]	[illegible]			1	1	1	1
-75	[illegible]	[illegible]			1	1	1	1
-76	[illegible]	[illegible]			1	1	1	1
-77	[illegible]	[illegible]			1	1	1	1
-78	[illegible]	[illegible]			1	1	1	1
-79	[illegible]	[illegible]			1	1	1	1
-80	[illegible]	[illegible]			1	1	1	1
-81	[illegible]	[illegible]			1	1	1	1
-82	[illegible]	[illegible]			1	1	1	1
-83	[illegible]	[illegible]			1	1	1	1
-84	[illegible]	[illegible]			1	1	1	1
-85	[illegible]	[illegible]			1	1	1	1
-86	[illegible]	[illegible]			1	1	1	1
-87	[illegible]	[illegible]			1	1	1	1
-88	[illegible]	[illegible]			1	1	1	1
-89	[illegible]	[illegible]			1	1	1	1
-90	[illegible]	[illegible]			1	1	1	1
-91	[illegible]	[illegible]			1	1	1	1
-92	[illegible]	[illegible]			1	1	1	1
-93	[illegible]	[illegible]			1	1	1	1
-94	[illegible]	[illegible]			1	1	1	1
-95	[illegible]	[illegible]			1	1	1	1
-96	[illegible]	[illegible]			1	1	1	1
-97	[illegible]	[illegible]			1	1	1	1
-98	[illegible]	[illegible]			1	1	1	1
-99	[illegible]	[illegible]			1	1	1	1
-100	[illegible]	[illegible]			1	1	1	1

AC166-DP1025
AN 526-AL10
AN 526-DD1032-7
AN 425-D8

-11R .090 128 RSE — Al Al 2I0 — .47 AS CONDA
-11L .090 128 RSE — Al Al 2I0 — .47 AS CONDA
-11R .090 128 RSE — Al Al 2I0 — .47 AS CONDA
-11L .090 128 RSE — Al Al 2I0 — .47 AS CONDA
-12 .064 X 4 X 7.9 — ANGLE EXT. — 7075
-12 .040 X 2 X 8.2 — Al Al 2I0 — .47 AS CONDA
-14 .040 128 RSE — Al Al 2I0 — .47 AS CONDA

#14-01

28W076

SCALE 1/16 — STAMP PART NUMBER WHERE SHOWN

SP. FINISH PRIMER

FINISH CODE	
A	BASIC TREATMENT
P	MIL Primer
XP	As Required & Primer
C	Corrosion Prev.

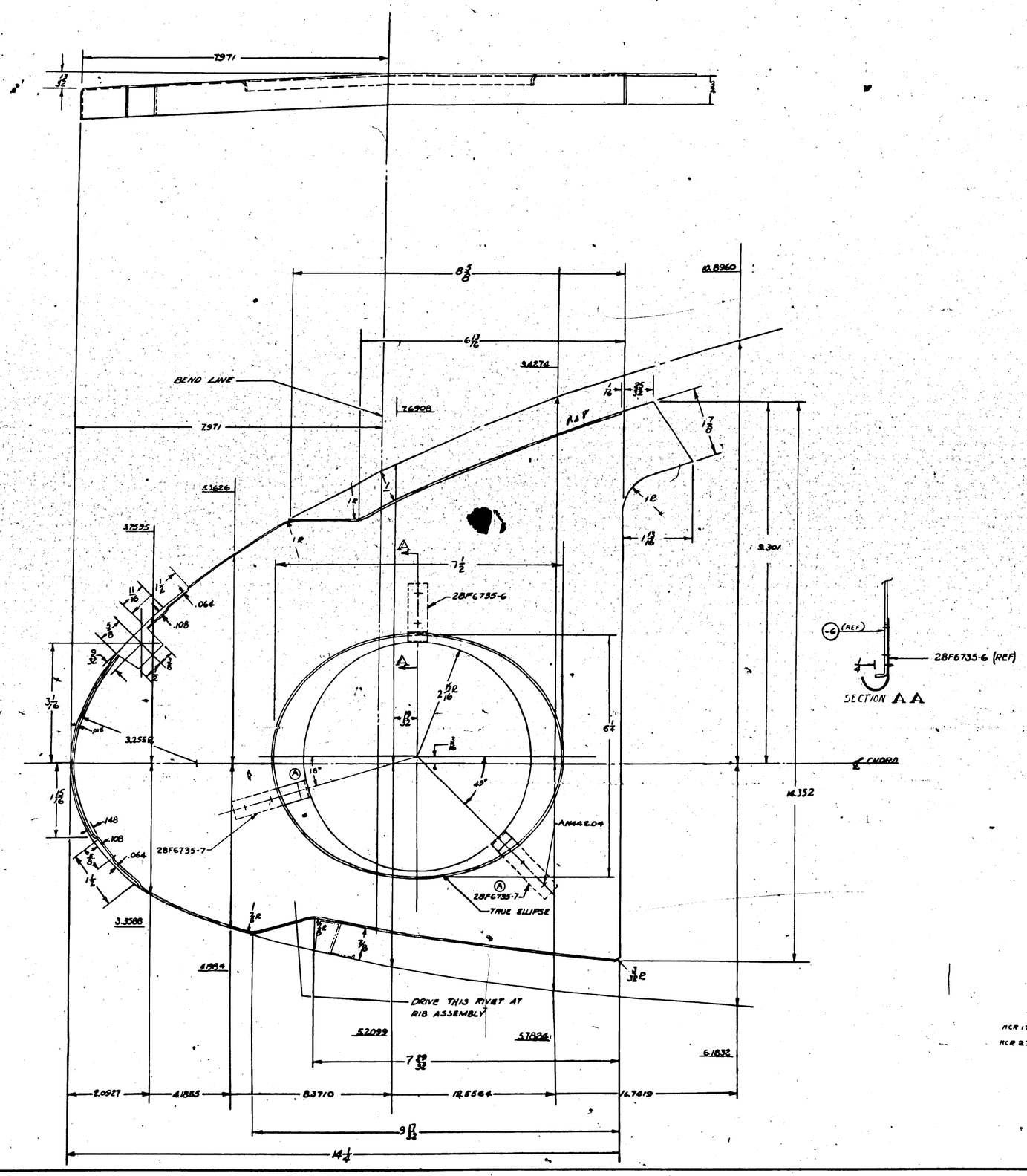
ALL DIMENSIONS ARE IN INCHES

A.C.			
NAVY NONE	ZP-2		
HEAT TREAT	FINISH	DRAWN	DATE
NAME FAIRING-WING-REAR STRUT-UPPER			
CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.		SIZE J	DWG. NO. 28W5076

H 509

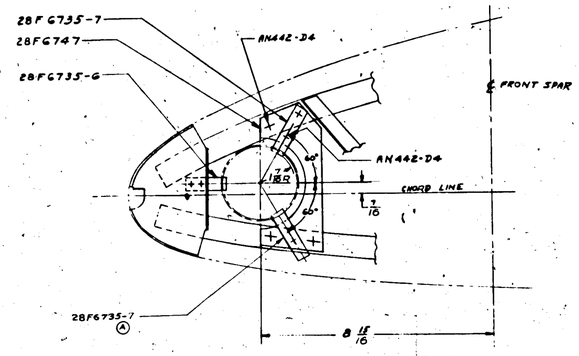
LET	ALTERATION	DATE	BY
A	RELOCATED FLUID CLIP 18° WAS 12°		
-	DELETED INCORPORATED ON WORK ORDER 831		
-	ADDED 732-7 (SEE SOLDERING SPEC.)		
-	MOVED SEC B-B, W.S. CHANGE	8-12-42	

BREWSTER
PO # 644

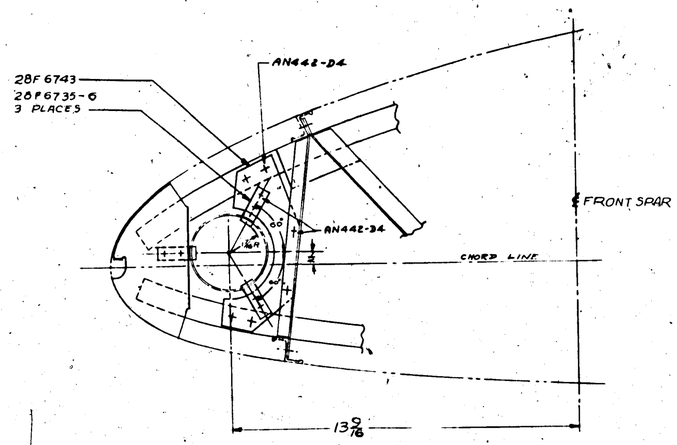


MCR 178-6	-2	2-22-42	[illegible]
MCR 23-14	-3	3-11-42	[illegible]
	-4	4-15-42	[illegible]
	-5	5-11-42	[illegible]

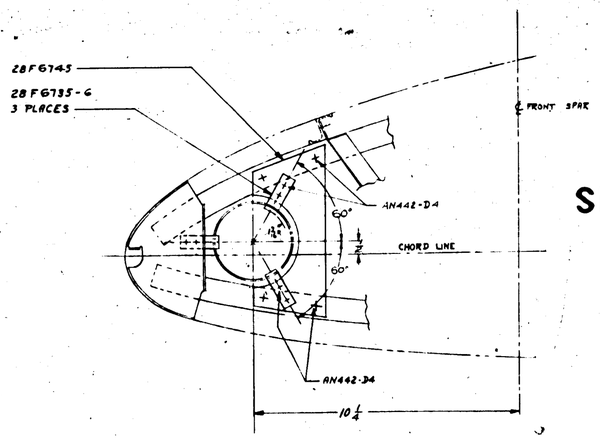
ANGLE .04



RIB STA. # 25



RIB STA # 20



RIB STA # 23

LET	ALTERATION	DATE	BY
A	ON FACE OF DWG AT RIB STA #25 28F6732-7 (6 PLACES) W/AN426AD3-5 & 28F6732-8 (1 PLACE) W/AN426AD3-6		

BREWSTER
SK-669

LET	ALTERATION	DATE	BY

SHEET # 2
OF 2 SHEETS

PART NO.	STOCK	MATERIAL	SPEC.	LH REQ -0	RH REQ -0	LH REQ -3	RH REQ -4	LH REQ -4	RH REQ -5
-3									

PARTS LIST PER ASSY.

A.C.
NAVY
HEAT TREAT — FINISH
CLEARANCE 3-15-44
DRAFT — CHECK — WEIGHT — DATE — APPROVED — DATE

NAME RIBS WING LEADING EDGE - OUTBD PANEL
CONSOLIDATED AIRCRAFT CORP. Fort Worth, Texas
SIZE J
28W5186
SHEET 1 OF 2

H 511

R
28W5186
SHEET #2 OF 2

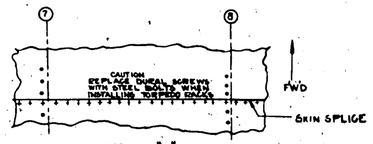
LET	ALTERATION	DATE	BY
A	NOTE "STENCIL --- SHOWN" CHG "STENCIL IN DK NON-SPECULAR WHITE PAINT ON BOTTOM SURFACE BETWEEN STA #7 & #8 AS SHOWN" NO WT CHG	8-14-43	
B	ON FACE OF SHEET, ITEM #24 & #27 WAS ON PORT & STBD SIDE, NO WT CHG	8-14-43	
C	ITEM #28 WAS STBD SIDE ONLY ADDED NOTE "SHOWN --- INSTALLED" TO ITEM NO WT CHG	8-24-43	
D	ADDED NOTE "STBD SIDE ONLY" TO ITEM #26 NO WT CHG	9-15-43	
E	NOTE "SYMMETRICAL --- NOTED" WAS "SYMMETRICAL --- ONLY" NO WT CHG	9-15-43	
F	REVISED NOTE "USE --- SIDES" NO WT CHG	9-23-43	
MCR396 G	REMOVED "30 DIA" LOCATION OF INSIGNIA IN RELATION TO AILERON CUTOUT ADDED INSIGNIA WITH REVISED SIZE & NOTE "DESCRIBING INSIGNIA FOR UPPER & LOWER WING SURFACES" ADDED NOTE "INSIGNIA TO BE TANGENT TO ℄ OF REAR SPAR" ADDED DETAIL "C" NO WT CHG	9-27-43	

LET	ALTERATION	DATE	BY
	ADDED ITEM #43 & DETAIL "C" WITH NOTE "STENCIL"	MCR 396	
	WHITE --- DIAMETER No.	MCR 396	
	IN NOTE "G" LIMITS THE INSIGNIA RED BORDER TO MCR 396 & MCR 1014A	MCR 396	
	MCR 1014 A ADDED "INSIGNIA BLUE BORDER FOR MCR 396 NON SPECULAR"	MCR 396	

GROUND ◎ HERE

DETAIL "B"

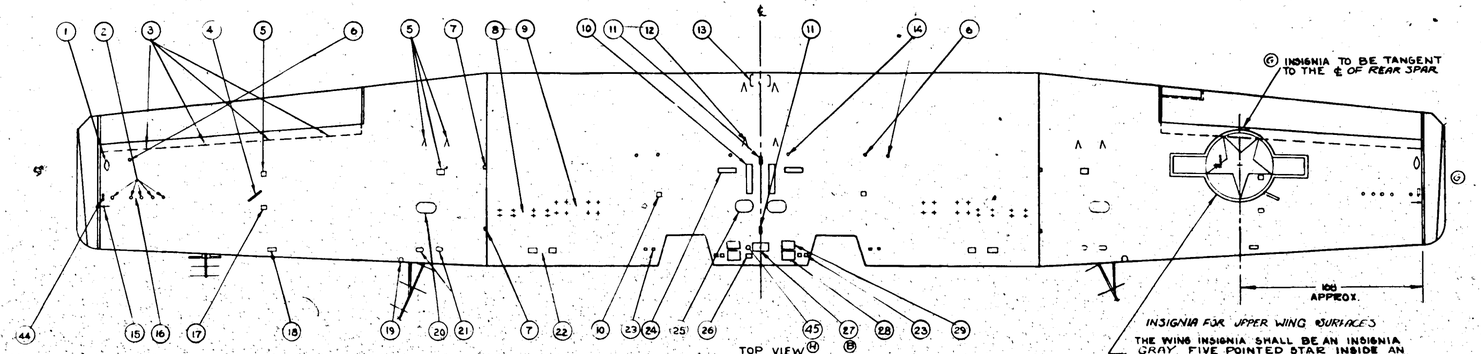
STENCIL WHITE LETTERS ½ INCH HIGH ON BLACK BACKGROUND 3 INCH DIAMETER.



DETAIL "A"

STENCIL IN ℄ NON-SPECULAR INTERMEDIATE BLUE FWD OF SPLICE ON BOTTOM SURFACE BETWEEN STA #7 & #8 AS SHOWN. (A)

(E) SYMMETRICAL ABOUT ℄ WING EXCEPT FOR ITEMS #25 & 26 TO BE STENCILLED AS NOTED.



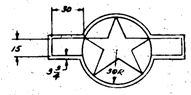
TOP VIEW

(F) INSIGNIA TO BE TANGENT TO THE ℄ OF REAR SPAR.

100 APPROX.

INSIGNIA FOR UPPER WING SURFACES

THE WING INSIGNIA SHALL BE AN INSIGNIA GRAY FIVE POINTED STAR INSIDE AN INSIGNIA BLUE CIRCUMSCRIBED CIRCLE (G) TWO RECTANGLES ARE BLOCKED IN SOLID ON EACH SIDE OF THE BLUE CIRCLE WITH INSIGNIA GRAY. THE ENTIRE DESIGN IS OUTLINED (3) WITH AN INSIGNIA RED BORDER (TO MCR 396 & MCR 1014A. THE ENTIRE DESIGN IS OUTLINED WITH AN INSIGNIA BLUE BORDER (MCR 396 & MCR 1014A & ON. NON SPECULAR TYPE PAINT USED.

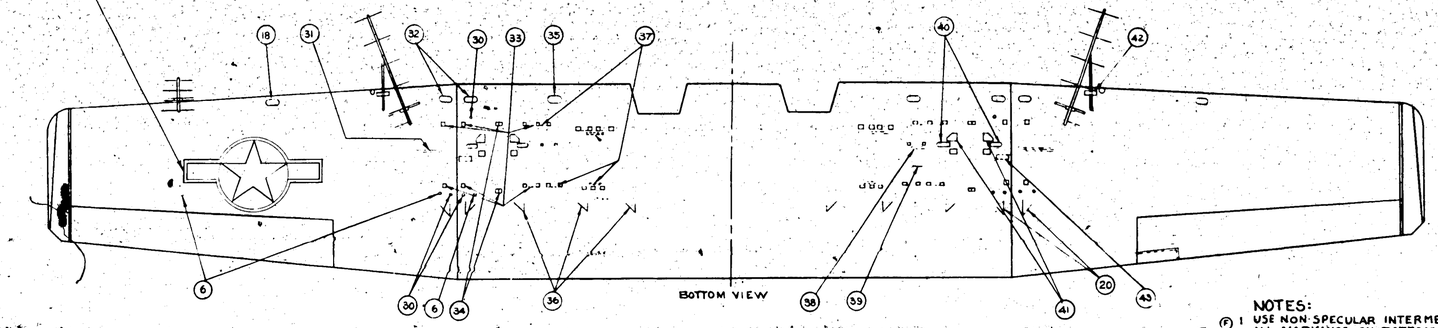


(G) GENERAL APPEARANCE OF COMPLETED INSIGNIA.

DETAIL C

(G) INSIGNIA FOR LOWER WING SURFACES

THE WING INSIGNIA SHALL BE AN INSIGNIA WHITE FIVE POINTED STAR INSIDE AN INSIGNIA BLUE CIRCUMSCRIBED CIRCLE. TWO RECTANGLES ARE BLOCKED IN SOLID ON EACH SIDE OF THE BLUE CIRCLE WITH INSIGNIA WHITE. THE ENTIRE DESIGN IS OUTLINED WITH AN INSIGNIA RED BORDER TO MCR 396 & MCR 1014A. THE ENTIRE DESIGN IS OUTLINED WITH AN INSIGNIA BLUE BORDER (MCR 396 & MCR 1014A & ON. NON SPECULAR TYPE PAINT USED.



BOTTOM VIEW

(1) ANTENNA MAST
(2) 5 BLACK CIRCLES 3/8 DIA x 1/8 WIDE & 1 BLACK ARROW AT WING TIP TO DESIGNATE OIL. HOLES
(3) ACCESS DOORS FOR ATTACHMENT OF AILERON HINGE RIBS TO WING SPAR
(4) ACCESS DOOR TO FLOAT LOCK CONTROL & RECOIL ABSORBER
(5) ACCESS DOOR TO AILERON CONTROL
(6) DRIFT HOLE
(7) PANEL HOIST
(8) BOMB HOIST
(9) TORPEDO HOIST
(10) ALL SCREWS THRU THIS PLATE TO BE Q 8105-10-1156 SCREWS 1/16 LONG (1/2 HIGH)
(11) HOIST
(12) CAUTION: DISCONNECT AILERON CONTROLS BEFORE REMOVING WING
(13) HAND GRIP
(14) ENGINE HOIST ANCHORAGE, OMIT WASHER WHEN USING HOIST (1/2 HIGH)
(15) STENCIL ARROW OVER FLOAT LOCK
(16) USE INSTRUMENT OIL ONLY
(17) PANEL HOIST
(18) ACCESS DOOR TO FLOAT CONTROL GEAR BOX
(19) WING LINE FITTING
(20) ACCESS DOOR TO WING SPLICE
(21) ACCESS DOOR TO RECEIVER AERIAL STRUT
(22) BOMB & TORPEDO CONTROL
(23) WORK PLATFORM
(24) SCREWS TO BE AN 525-10-9 WASHER HEAD 9/16 LONG (1/2 HIGH)
(C) (25) SUITABLE FOR AROMATIC FUELS (DATE) (STENCIL ONLY ON SIDE WHERE FUEL CELLS INSTALLED)
(D) (26) D.C. GENERATOR J.C.T. (STBD SIDE ONLY)
(27) CAUTION: DISCONNECT ELECTRIAL WIRING CONTROLS ETC. BEFORE REMOVING WING
(28) BATTERY
(29) ENGINE TERMINAL
(30) DRAIN HOLE
(31) CAUTION; DISCONNECT ELECTRICAL WIRING AILERON CONTROL, FLOAT CONTROL, & DEICER TUBES BEFORE REMOVING WING.
(32) ACCESS DOOR TO FLOAT TORQUE TUBE COUPLING & WING SPLICE.
(33) ATTACH BOMB LOADING PLATFORM
(34) ATTACH MK 42 BOMB RACK
(35) CAUTION: DISCONNECT LANDING LIGHT WIRES BEFORE REMOVING LEADING EDGE.
(36) ACCESS TO AILERON CONTROL INSPECTION
(37) ATTACH TORPEDO LOADING PLATFORM.
(38) ATTACH 28A5132 TORPEDO & BOMB RACK
(39) SEE DETAIL "A"
(40) ACCESS TO MK 51-7
(41) NOSE ↑ FUSING ↓ TAIL
(42) ACCESS DOOR TO WING LINE FITTING
(43) AT SPLICE OF CENTER SECTION & OUTER PANEL INSIDE WING ON BOTTOM SKIN OF CENTER SECTION-BOTH ENDS-STENCIL IN 1" HIGH GLOSSY RED LETTERS "DO NOT FLY SHIP WITHOUT STRINGER SPLICE INSTALLED"
(44) NO STEP.
(45) SEE DETAIL "B"

NOTES:
(F) 1 USE NON-SPECULAR INTERMEDIATE BLUE FOR ALL MARKINGS ON BOTTOM & TOP SIDES.
2 WING MARKINGS TO CONFORM WITH SPEC SR-2c WING INSIGNIA TO CONFORM WITH SPEC AN-1-9
3 ALL LETTERING TO BE 1" HIGH UNLESS NOTED.

(C#103)1478, C#BIATH MCR 39A-1
C#108(3) 464 MCR 39A-1

APPROVED FOR TOOLING BY
Howard
9/27/43

PBY-5	28 (WING)		
PBY-5A	28W-5001		
REQUIREMENTS PER AIRPLANE			
REPLACED		Stock No.	
REPLACED BY		Asy No.	
SCALE 1/4" = 1'0"			
STAMP PART NUMBER WHERE SHOWN	MODEL	PART ASSY	NO.

PART No.	STOCK	MATERIAL	SPEC	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ	LH REQ	RH REQ
PARTS LIST PER ASSY.				-0	-0	-2	-2	-3	-3	-4	-4

A.C.					
NAVY	NOTED		5-13-43		
HEAT TREAT	FINISH		DRAFT	CHECK	APPROVAL

NAME INSIGNIA & MARKING WING
OPP HAND
SIZE J
DWG 28W5550
CONSOLIDATED AIRCRAFT CORP. San Diego Calif.

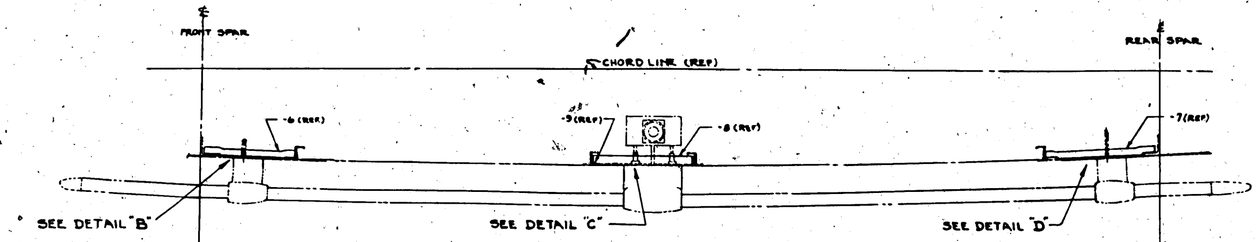
H-512

R 5/28/43 OSSSM82

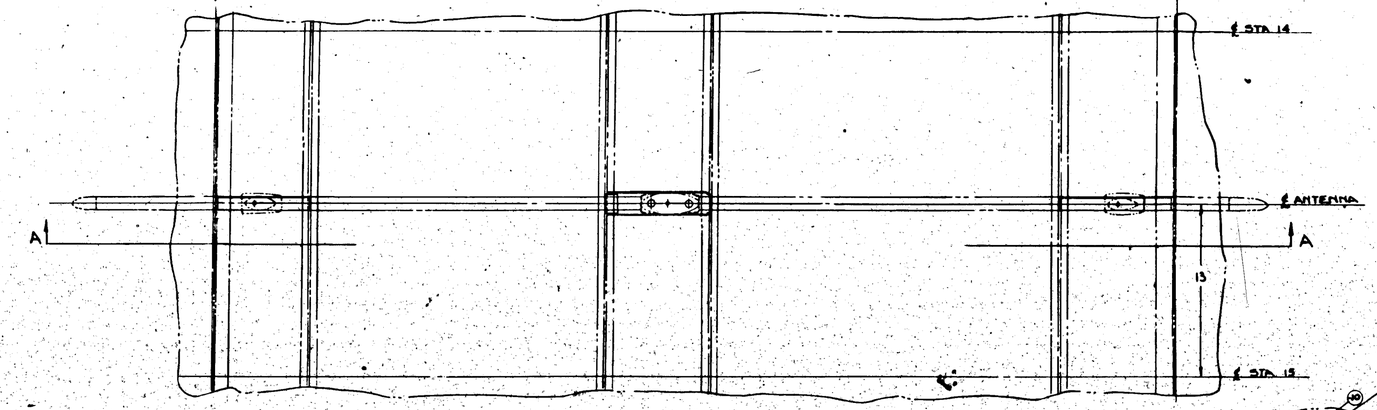
LET	ALTERATION	DATE	BY

LET	ALTERATION	DATE	BY
A	-5 CHANGED FROM 7.00 TO 7.06		
	-6 CHANGED FROM 7.00 TO 7.06		

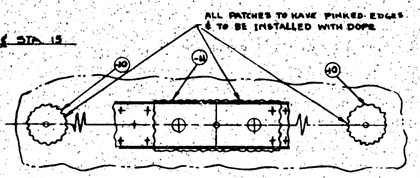
E.O. 760
CONFORMED AIRCRAFT COPY.



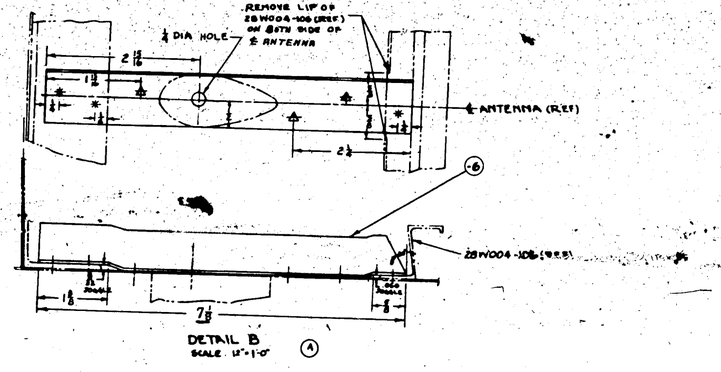
SECTION A-A
SCALE: 3"=1'-0"



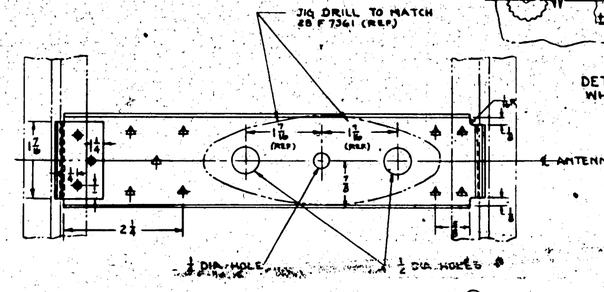
PLAN VIEW

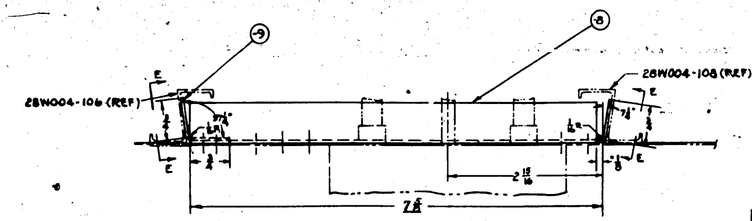


DETAIL OF PATCHES TO BE USED
WHEN ANTENNAS ARE NOT INSTALLED

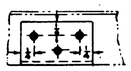


DETAIL B
SCALE: 12"=1'-0"

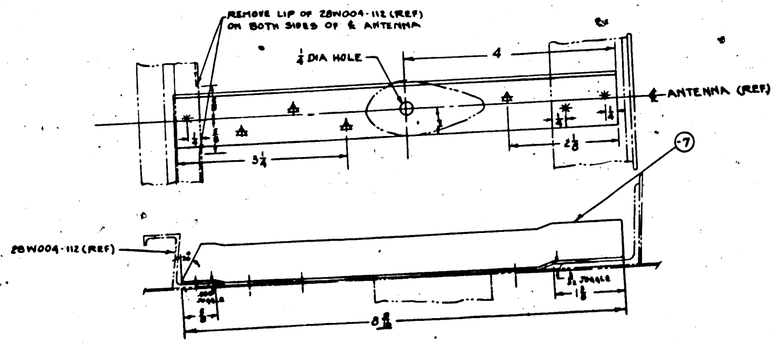




DETAIL C
SCALE: 12"=1'-0"



VIEW E-E



DETAIL D
SCALE: 12"=1'-0"

FINISH CODE	
Z	ANODIC TREATMENT
P	P-17 PRIMER
AP	ALUMINIZED PRIMER
C	CADMIUM PLATE

NOTES:-
1- USE 17ST RIVETS (A17ST RIVETS OPTIONAL)
2- HEAT TREAT ALL SD MATERIAL PER SPEC. SRS3
3- INSTALLATION ON L.H SIDE ONLY.

⊥ - RIVETS	(SEE SPECIFIC AT INTERVALS BY THE FOLLOWING SYMBOLS)
◆ - 1/8	✦ - 5/32
⊕ - 1/4	✦ - 5/16
	✦ - 3/32
	◆ - 3/16

C - 0.875 (7/8 in)
C - 0.6875 (11/16 in)

PART NO.	STOCK	MATERIAL	SPEC.	LET	QTY	LET	QTY	LET	QTY	LET	QTY	LET	QTY
-11	PREAM PETA-123												
-10	PREAM PETA-123												
-9	MS 21042L4												
-8	MS 21042L4												
-7	MS 21042L3												
-6	MS 21042L3												
PARTS LIST PER ASSY.				-0		-2		-3		-4		-5	

A 0							
ENVY NOTED	Z-P						
HEAT TREAT	FINISH						

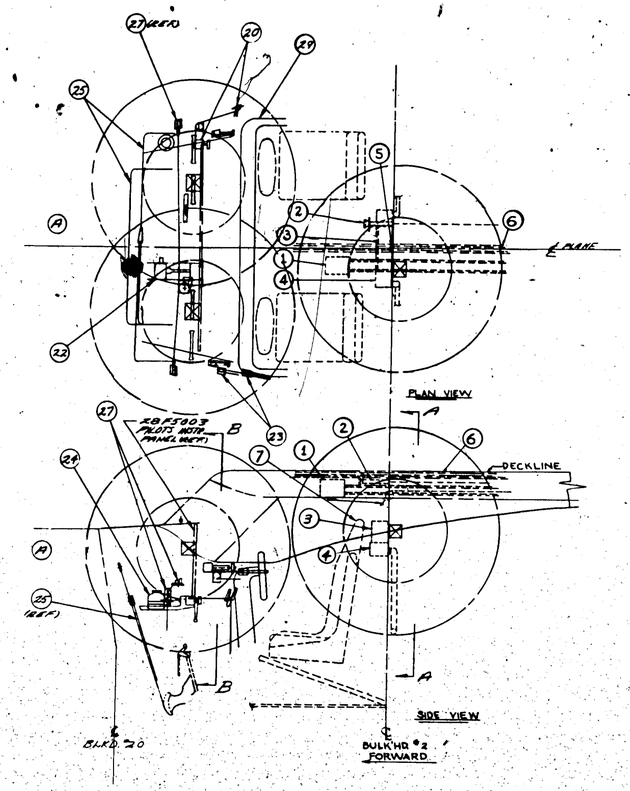
INSTALL - STRUCTURAL SUPPT
BLIND APPROACH ANTENNA
CONSOLIDATED AIRCRAFT CORP.

SIZE J
28W6034

3/27

H 513

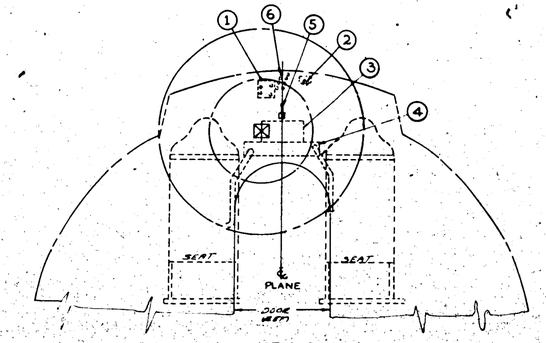
R



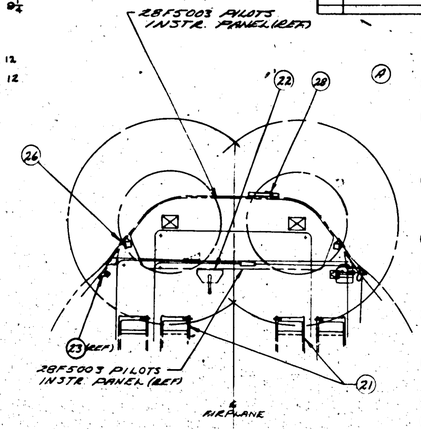
MAGNETIC MATERIAL IN VICINITY OF COMPASS MOUNTING ON BULK'HD 2
& ON PILOTS INSTR PANEL

NAVIGATORS COMPASS LOCATION
PBY-5, PBY-5A, & OA-10

		DISTANCE TO CENTER OF COMPASS (APP)
1	FLAP CONTROL GEAR BOX: (28C1070) 6 STEEL BALL BEARING - .18# 6 STEEL SHAFTS - .32 4 STEEL GEARS - .42 MISC. STEEL PARTS & FASTENINGS - .10	18
2	DE-ICER EQUIP - DISTRIBUTOR VALVE CONTROL (28F2190) ARENS CONTROL MADE UP OF 10' AIRCRAFT CABLE & .051 MUSIC WIRE SPRING.	15
3	PILOT'S INTERPHONE CONTROL BOX. (28F5085) INTERNALLY SHIELDED WIRE USED	7½
4	PILOT'S SWITCH PANEL ASSEMBLY & CONDUIT (28E1047) HINGE PIN - STEEL - 18" LONG - .03# MISC. STEEL FASTENINGS - .01 23 WIRES IN CONDUIT - 15 AMP MAX. LOAD - STRUCTURAL RETURN	8½
5	FLARE RELEASE CABLES & CONTROL (28A1006) BALL BEARING IN PULLEY .08# FLARE RELEASE HANDLE .80 MISC. STEEL FASTENINGS .08 3/32 STEEL CABLE	9½
6	POWER PLANT CABLES (28F5005)	12
PBY-5A & OA-10 ONLY 7	PILOT'S ARMORED SEAT INSTALLN. STEEL ARMOR PLATE.	12



VIEW A-A
LOOKING FORWARD
PBY-5, PBY-5A, & OA-10



VIEW B-B
LOOKING FORWARD
FOR PBY-5A & OA-10

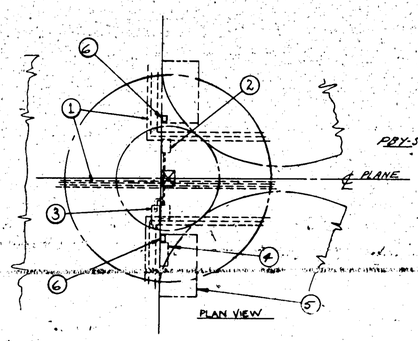
NOTES:
CIRCLES REPRESENT SPHERES OF 12 & 24 INCH RADII CENTERED ON COMPASS LOCATIONS

FOR BULKD #2 & COMPASS MOUNT SEE DWG 28F2535
FOR PILOTS & CO-PILOTS COMPASS SEE DWG 28F5003

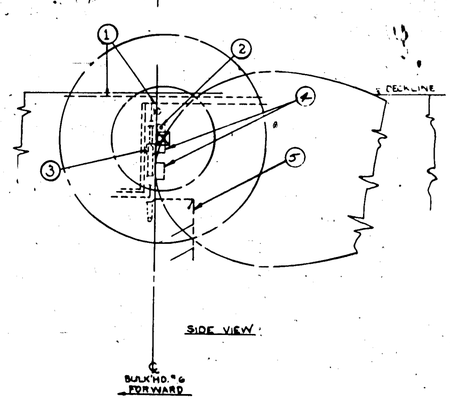
LET	ALTERATIONS	DATE	BY
A	ADDED PBY-5A & OA-10 ITEMS TO INCLUDE MAGNETIC MATERIALS IN VICINITY OF PILOTS & CO-PILOTS COMPASS & ADDITIONAL MAGNETIC MATERIALS IN VICINITY OF NAVIGATORS COMPASS AT BULKD. *B.B. & *D.D. CAD. TITLE & DWG. TO CONFORM TO CHANGE.		

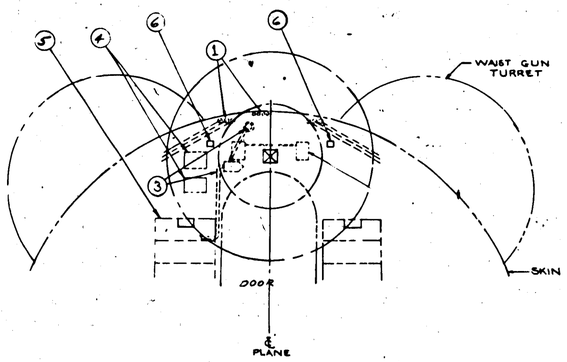
PILOTS COMPASS LOCATION PBY-5A & OA-10

		DISTANCE TO CENTER OF COMPASS (APP)
20	28C5708 BRAKE MECHANISM INSTALLN 2 STEEL PULLEY BEARINGS 4 STEEL SCREWS, NUTS, & COTTERS 1 ⅛ STEEL CABLE (CORR RESISTANT) 4 STEEL LOCK PINS 4 STEEL TURNBUCKLES	15-24 TO CO-PILOTS COMPASS
21	28C5326 RUDDER PEDAL INSTALLN 4 STEEL LOCK PINS 4 STEEL TURNBUCKLES	22
22	28F6588 LANDING GEAR SELECTOR VALVE 1 LEVER SHAFT, NUT & COTTER PIN SHAFT IS CORR RESISTANT STEEL 1 LEVER SHAFT BEARING (6 STEEL) 5 HYD FITTINGS (STEEL) 6 STEEL SCREWS	15 TO PILOTS COMPASS
23	28C4060 RUDDER LOCK INSTALLN 1 STEEL PIN & NUT 1 STEEL SHANK 2 STEEL SCREWS & NUTS 1 ⅛ STEEL CABLE (CORR RESISTANT) 1 STEEL PULLEY BEARING	16-22 TO PILOTS COMPASS
24	PILOTS WINDSHIELD SPRAY CLEANER INSTALLN (28F5062) 1 STEEL BAND, SCREW & NUT 1 STEEL BOTTLE CLIP	15 TO CO-PILOTS COMPASS 15-24
25	RUDDER PEDAL & CONTROLS INSTALLN (28C5526) 7 STEEL BOLTS & NUTS 4 STEEL CLEVIS PINS & COTTERS 2 RUDDER GUN RADIO CABLES CABLES ARE CORR RESISTANT STEEL	14
26	28B1269 PILOTS VENTILATOR INSTALLN 2 STEEL SCREWS 2 STEEL CHECK NUTS 1 STEEL COTTER PIN 180° SLOT AIR FLARE	12-24
27	28A1015 EMER BOMB RELEASE INSTALLN 3 STEEL BOLTS & NUTS 3 STEEL PULLEY BEARINGS ⅛ STEEL CABLE (CORR RESTANT)	12 TO CO-PILOTS COMPASS 6-24
28	28F5704 PILOTS, CO-PILOTS WINDSHIELD DEFROSTER 1 STEEL BUTTERFLY SHUTOFF	
29	28C5003 CONTROL CODE ASSY. 10 STEEL BOLTS, NUTS, & COTTERS. MISC STEEL SCREWS. 4 LARGE STEEL BEARINGS 4 LARGE STEEL NUTS ⅜ STEEL CABLE (CORR RESISTANT) 9 ELEC SWITCHES & MISC PARTS.	



		DISTANCE TO CENTER OF COMPASS (APP)
A		
PBY-5 1	CONTROL CABLES: (28C5000) 4 STEEL TAB CABLES - 3/32 x 7 x 7 6 STEEL RUDDER & ELEVATOR CABLES - 5/16 x 7 x 0	11
PBY-5 2	INTERPHONE STATION BOXES (28F5085) INTERNALLY SHIELDED WIRE USED	8
PBY-5 3	CONDUIT INSTALL. - SWITCH BOX FOR LIGHT & OUTLET (28E1013) 8 WIRES IN CONDUIT - 3 AMP MAX. LOAD - STRUCTURAL RETURN	9
PBY-5A & OA-10 4	28A5100 KEYS, PISTOL AMMO CONTAINER INSTALLN 2 SMALL STEEL CHAINS 2 LARGE COTTER PINS.	16-18
5	28F5863 WAIST GUN AMMO STOWAGE INSTALLN 3 STEEL MAGAZINE CLIPS.	23
6	28E1013 FLASH LIGHT STOWAGE CLIPS (SEE VIEW D-D) 2 STEEL FLASH LIGHT HOLDER CLIPS	15





VIEW FORWARD

MAGNETIC MATERIAL IN VICINITY OF COMPASS MOUNTING ON BULK'HD #6

NOTE:
FOR COMPASS MOUNT ON BULKD. #6 SEE DWG. 28F2535

PBY-5A
PBY-5

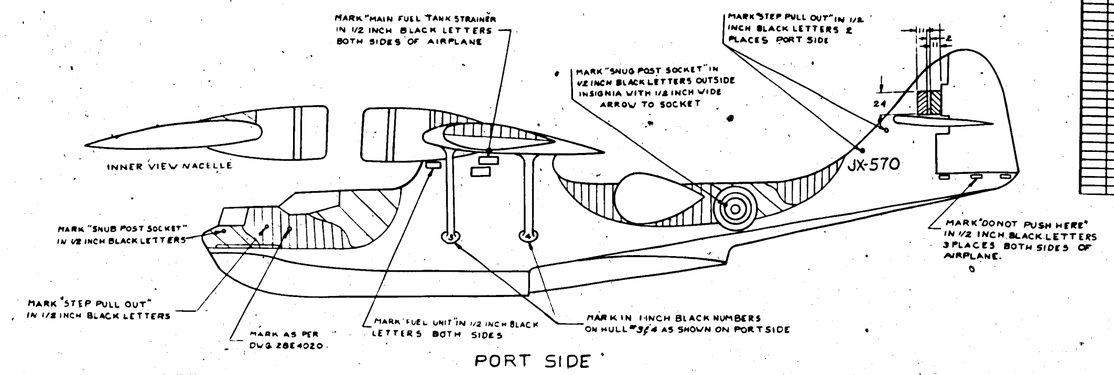
PART NO.	STOCK	MATERIAL	SPEC	LIT REQ	LIT REQ	LIT REQ	LIT REQ	LIT REQ	LIT REQ
			PARTS LIST PER ASSY.	-0	-2	-3	-4	-5	

A-C
NAVY NAME — HEAT TREAT
NAME — FINISH

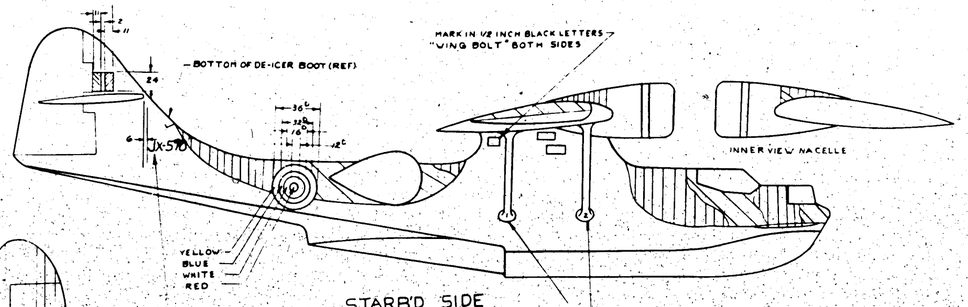
NAME MAGNETIC MATERIALS IN VICINITY OF PILOTS, CO-PILOTS & NAVS. COMPASS LOCATIONS
CONSOLIDATED AIRCRAFT CORP. SAN DIEGO, CALIF.
SIZE J — DWG NO. 28Z5013
SCALE 1½-0"
SHEET

H 514

LET	ALTERATION	DATE	BY	LET	ALTERATION	DATE	BY

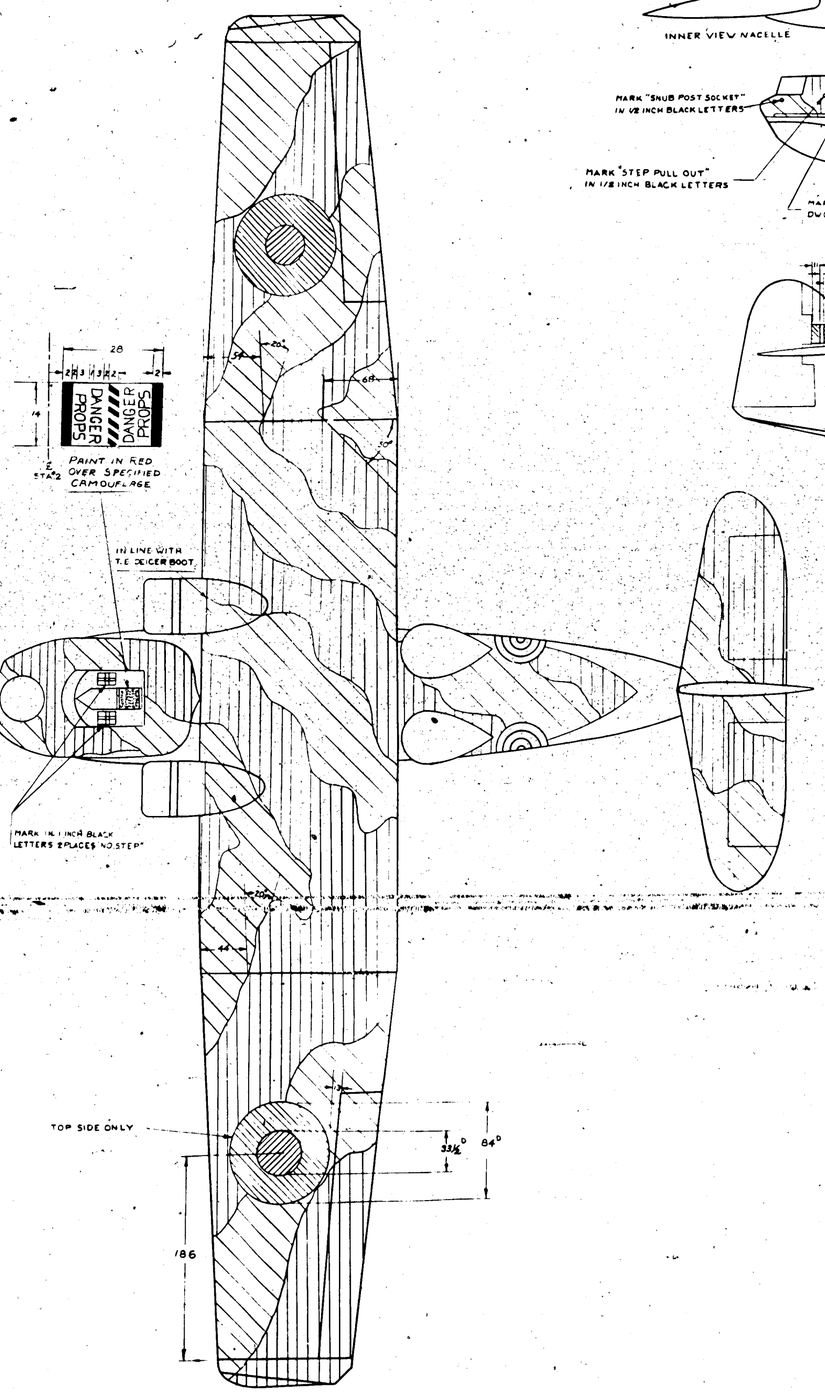


PORT SIDE



STARB'D SIDE

NOTE: THIS DRAWING TRACED FROM 28Z9001 ISSUED BY ELIZABETH CITY D.V.4.



JX-570 IS SAMPLE NUMBER ONLY, NUMBERS TO BE PAINTED ON SHIPS AS PER THOSE ASSIGNED BY BRITISH, BLOCK LETTERS (SEE DETAIL BELOW) COLOR- LIGHT SLATE GREY OR BLACK

ALL LETTERS 1 INCH "X"

JX-570

5 (TYP)

DULL BLUE

DULL RED

EXTRA DARK SEA GRAY

DARK SLATE GRAY

WHITE

NOTES
1) MATERIAL: USE DUPONT CAMOUFLAGE PAINT
A-WHITE # 71-001
B-DULL BLUE # 71-012
C-DULL RED # 71-007
D-YELLOW # 71-010
E-EXTRA DARK SEA GRAY # 71-19234
F-DARK SLATE GRAY # 71-19123
G-BLACK # 71-006
2) ALL FOREIGN INSIGNIA & MARKINGS TO BE "BLOCKED OUT" WITH WATER SOLUBLE SOYA PROTEIN OR CASEIN BASE PAINT OR EQUIVALENT.
3) ADD SIX (6) U.S. NATIONAL STAR INSIGNIA LOCATED AS SHOWN ON 28Z5026 USING WATER SOLUBLE SOYA PROTEIN OR CASEIN BASE PAINT OR EQUIVALENT
4) ON EACH OF THE TEMPORARY STAR INSIGNIA STENCIL THE FOLLOWING INSTRUCTIONS IN SMALL LETTERS "REMOVE BLOCK OUT PAINT BY WASHING WITH A RAG SATURATED WITH WHITE GASOLINE OR MINERAL SPIRITS.
5) ON FABRIC SURFACES DOPED WITH ACETATE BUTERATE DOPE AN ACETATE BUTERATE PIGMENTED DOPE MUST ALSO BE USED. THE COLOR IS TO AGREE WITH PRESENT CAMOUFLAGE COLOR SCHEME.

TOLERANCE OF CAMOUFLAGE PATTERN ± 2"

CONT 31876 LL MCR 398

APPROVED FOR TOOLING BY E E Dalton 5-15-43

PART No	STOCK	MATERIAL	SPEC	LET DIA REQ	LET DIA REQ	LET DIA REQ	LET DIA REQ	LET DIA REQ
PARTS LIST PER ASSY				-0	-2	-3	-4	-5

A/C NAVY NONE	NOTED	5/1/43	KRUK	
HEAT TREAT	FINISH	DRAFT	CHECK	STRUCT	MAT	APPROVED	ENG

NAME CAMOUFLAGE MARKING & INSIGNIA

CONSOLIDATED AIRCRAFT CORP San Diego Calif

OPP NUMB

SIZE J

DWG 28Z5030

H-515

BLUE GRAY
NON SPECULAR LACQUER

LIGHT GRAY
NON SPECULAR LACQUER

PLEXIGLASS

RED
WHITE — NON SPECULAR LACQUER
BLUE

Ⓐ BLUE
WHITE

INSIGNIA FOR C-88476, SHIP #33 & ON

NOTE:
INSIGNIA ON RIGHT WING
ON UPPER SURFACE ONLY.

FOR ADDITIONAL WING MARKINGS
SEE DWG. 28W8BE

NO. OF THE AIRPLANE IN THE SQUADRON
SHALL BE PAINTED IN THE CENTER OF THE
WING SPAN AND THE NUMERALS SHALL
BE 18" HIGH.

12

MARK IN 1" RED LETTERS
2 PLACES "NO STEP" Ⓑ

PAINT 2" RED LINES AND
CENTER BARS
IN 5" RED LETTERS PRINT
"DANGER PROPS" AS SHOWN
PAINT WITH NON SPECULAR RED

28
2 2 3 3 3 3 2
DANGER PROPS
DANGER PROPS

MARK IN 1" RED LETTERS
2 PLACES "NO STEP"
Ⓑ

℄ STA. 42

FINISH ENTIRE WALKING
SURFACE OF WOODEN
PLATFORM EXCEPT CLEAT &
ANCHOR CABLE GUIDE:
2 COATS NON SPECULAR BLUE
GRAY LACQUER - SEMALTZ
BLACK SAND - 1 COAT NON
SPECULAR BLUE GRAY.
(SEMALTZ BLACK SAND AS
OBTAINED FROM W.P. FULLER
CO. SAN DIEGO, CALIF. OR
EQUIVALENT)

LINE OF VERTICAL TANGENCY

STBD. INSIGNIA IN THIS AREA
SEE DETAIL 35ON

LINE OF VERTICAL TANGENCY

MARK "MAIN FUEL TANK STEAMLINE"
BOTH SIDES OF SHIP

LINE OF VERTICAL TANGENCY
℄ KEEL OF FLOAT

APPROX. 1"

MARK "STEP
PULL OUT"

½ APPROX.

LINE OF VERTICAL TANGENCY

MARK IN 3 PLACES
DO NOT PUSH HERE

MARK "STEP PULL OUT"

MARK SNUB POST SOCKET
PORT SIDE ONLY

1995 GAL. FUEL UNIT
BOTH SIDES OF SHIP

NOTE:
NON SPECULAR LIGHT
GRAY.

MARK SNUB POST SOCKET

LINE OF VERTICAL TANGENCY

NORMAL LOW WATER LEVEL

NORMAL LOW WATER LEVEL

MARK "ANCHOR BOX"

MARK "WING BOLT"
BOTH SIDES OF SHIP

MARK "ANCHOR LIGHT ON-OFF"
PER DWG NO. 28E4020

CHINE LINE

MARK "FOR WORK"

STENCIL IN BLACK 1" HIGH
NUMERALS ON HULL "3" ON
PORT SIDE AS SHOWN ℄
"1" ON STBD SIDE.

STENCIL IN BLACK 1" HIGH
NUMERALS ON HULL "4" ON
PORT SIDE AS SHOWN ℄
"2" ON STBD SIDE.

SQUADRON INSIGNIA SHALL BE
CENTERED VERTICALLY ON A
LINE WITH THE TOP OF AFT
WINDOW IN BULKHEAD AND
MIDWAY HORIZONTALLY BETWEEN
END WINDOW AND AFT EDGE OF
REAR STEP AS SHOWN.
INSIGNIA SHALL NOT EXCEED
AN AREA BOUNDED BY A 6' SQUARE.

48" DIA.

149"

NOTE:
INSIGNIA ON LEFT WING
ON UPPER SURFACE ONLY

SQUADRON MARKINGS SHALL BE IN BLACK
LETTERS 18" HIGH. THE TOP OF THE "P" TO
BE APPROX. 1" BELOW THE BOTTOM OF THE
WING. CONT: WINDOW AND CENTERED MIDWAY
BETWEEN THE FWD. EDGE OF THE FWD. STEUT
AND AFT. END OF WOODEN FLATFORM.

UPPER SURFACE OF STEUT
℄ FAIRING TO BE PAINTED
NON SPECULAR BLUE GRAY

SECTION OF STEUT

LOWER SURFACE OF STEUT
℄ FAIRING TO BE PAINTED
NON SPECULAR LIGHT GRAY

E. REAR SPAR

Ⓐ ON CONTRACT NO. 88476, SHIP #33 & ON

BLEND. 12

APPROX. 14

ON EACH SIDE OF SHIP LOCATE A 24"
DIA. STOR INSIGNIA AS SHOWN.

Ⓐ 42" DIA. FOR C-88476, SHIP #33 & ON

Ⓐ ON CONTRACT NO. 88476, SHIP #33 & ON

FINISH AREA-FINISH SPEC. ZF-28-004)
ALL SURFACES VISABLE FROM THE UPPER HALF OF A
SPHERE AND ABOVE THE TANGENCY LINE EXCEPT AS SHOWN, SHALL BE
FINISHED WITH 2 COATS OF NON SPECULAR BLUE
GRAY LACQUER OVER THE SPECIFIED PRIMER COAT. (SEE COLOR CODE)

ALL SURFACES VISABLE FROM THE LOWER HALF OF A
SPHERE AND BELOW THE TANGENCY LINE EXCEPT AS SHOWN, SHALL BE
FINISHED WITH 2 COATS OF NON SPECULAR LIGHT GRAY
LACQUER OVER THE SPECIFIED PRIMER COAT. (SEE COLOR CODE)

NON SPECULAR LACQUER TO CONFORM WITH NAVY
MATERIAL SPECIFICATION 14-686

NOTE: ALL LETTERS & NUMERALS APPLIED TO THE EXTERIOR
SURFACES SHALL BE NON SPEC. BLACK LACQUER ON
BLUE GRAY SURFACES & NON SPEC. WHITE LACQUER ON
LIGHT GRAY SURFACES.

THE WIDTH OF ALL LETTERS & NUMERALS SHALL BE APPROX.
⅙ OF THE HEIGHT AND THE WIDTH OF THE INDIVIDUAL
STROKES FORMING THEM SHALL BE ⅙ OF THE HEIGHT

ALL MARKINGS SHALL BE ½ HIGH UNLESS OTHERWISE SPECIFIED.

LET	ALTERATION	DATE	BY
A	[illegible]		
B	ON FILE ADDED NOTES, MARK [illegible]		
C	[illegible]		

LET	ALTERATION	DATE	BY
A	[illegible]		
B	ON FILE ADDED NOTES, MARK [illegible]	2/17/48	[illegible]
C	[illegible]		

SO A 24TH

THIS SURFACE TO BE FINISHED
NON SPECULAR BLUE GRAY

THIS SURFACE TO BE FINISHED
NON SPECULAR LIGHT GRAY

SECTION OF STABILIZER

SERVICE MARKING "NAVY" TO BE
PAINTED NON SPECULAR BLACK
LETTERS 1" HIGH

SERIAL NUMBERS TO BE PAINTED NON
SPECULAR BLACK-NUMERALS 1" HIGH.

MODEL NUMBER TO BE PAINTED
NON SPECULAR BLACK-LETTERS
AND NUMERALS 1" HIGH

PER SO 536-63 ON
CONTRACT #70496

THIS DWG. APPLIES ALSO
TO PBY-5A'S on CONTRACT
#7713 FOR OA-10
SEE DWG 28Z5060

Ⓓ TO MCR 894

PART NO.	ORDER	MATERIAL	SPEC.	PARTS LIST PER ASSY.	-0	-2	-3	-4	-5

DRAFT		TRACE	
RIGHT WRIGHT		4-20-48	

MARKING DIAGRAM

CONSOLIDATED AIRCRAFT CORP. San Diego, Calif.

SIZE J — DWG. NO. 28Z 5502

REV. R

H 516

PHOTO CHECKED 5/24/94 BCA

6 5 4 3 2 1

A 36601

LET	ALTERATION	DATE	BY
A	ADD "A" DASH NUMBER	7-15-42	
B	CHANGED "A" DASH NUMBER	8-3-42	
C	CHANGED "B" DASH NUMBER	8-17-42	
	CHANGED PER CR 34795	9-17-42	
EO A10339 C446-189-12	FOR 2 ASSY "B" DIA HOLE WAS 1 1/16 DIA HOLE, AN3066-6 OR 8 AT -17 & -21 ASSY'S, 2 HOLES AN3066-10 OR 12 AT -17 & -21 ASSY'S, MAG WT CHG	10-20-42	
D	CREATED -3 ASSY FOR SHIP -20	11-5-42	
EO A6410289A C446-2318	-1 & -3 ASSY FOR SHIPS #20 & SUBS, LIMIT 48 -3 ASSY'S, 2 HOLES 1 3/16 DIA (REF) ON FACE OF -3 ASSY'S, 2 HOLES 1 1/16 DIA (REF) ON FACE OF -3 ASSY'S, MAG WT CHG	11-20-42	
E	-1 ASSY FOR SHIPS #21 & SUBS, MAG WT CHG	12-15-42	
F	DIM "A" CHG'D FROM 8 1/16 TO 8 1/8, DIM "B" CHG'D FROM 8 1/16 TO 8 1/8, DIM "C" CHG'D FROM 7 1/16 TO 7 1/8, DIM "D" CHG'D FROM 6 1/16 TO 6 1/8, DIM "E" CHG'D FROM 7 1/16 TO 7 1/8, DIM "F" CHG'D FROM 6 1/16 TO 6 1/8, DIM "G" CHG'D FROM 7 1/16 TO 7 1/8, DIM "H" CHG'D FROM 6 1/16 TO 6 1/8, DIM "J" CHG'D FROM 7 1/16 TO 7 1/8, DIM "K" CHG'D FROM 6 1/16 TO 6 1/8, DIM "L" CHG'D FROM 7 1/16 TO 7 1/8, DIM "M" CHG'D FROM 6 1/16 TO 6 1/8, DIM "N" CHG'D FROM 7 1/16 TO 7 1/8, DIM "P" CHG'D FROM 6 1/16 TO 6 1/8, DIM "Q" CHG'D FROM 7 1/16 TO 7 1/8, DIM "R" CHG'D FROM 6 1/16 TO 6 1/8, DIM "S" CHG'D FROM 7 1/16 TO 7 1/8, DIM "T" CHG'D FROM 6 1/16 TO 6 1/8, DIM "U" CHG'D FROM 7 1/16 TO 7 1/8, DIM "V" CHG'D FROM 6 1/16 TO 6 1/8, DIM "W" CHG'D FROM 7 1/16 TO 7 1/8, DIM "X" CHG'D FROM 6 1/16 TO 6 1/8, DIM "Y" CHG'D FROM 7 1/16 TO 7 1/8, DIM "Z" CHG'D FROM 6 1/16 TO 6 1/8, DIM "AA" CHG'D FROM 7 1/16 TO 7 1/8, DIM "BB" CHG'D FROM 6 1/16 TO 6 1/8, DIM "CC" CHG'D FROM 7 1/16 TO 7 1/8, DIM "DD" CHG'D FROM 6 1/16 TO 6 1/8, DIM "EE" CHG'D FROM 7 1/16 TO 7 1/8, DIM "FF" CHG'D FROM 6 1/16 TO 6 1/8, DIM "GG" CHG'D FROM 7 1/16 TO 7 1/8, DIM "HH" CHG'D FROM 6 1/16 TO 6 1/8, DIM "II" CHG'D FROM 7 1/16 TO 7 1/8, DIM "JJ" CHG'D FROM 6 1/16 TO 6 1/8, DIM "KK" CHG'D FROM 7 1/16 TO 7 1/8, DIM "LL" CHG'D FROM 6 1/16 TO 6 1/8, DIM "MM" CHG'D FROM 7 1/16 TO 7 1/8, DIM "NN" CHG'D FROM 6 1/16 TO 6 1/8, DIM "OO" CHG'D FROM 7 1/16 TO 7 1/8, DIM "PP" CHG'D FROM 6 1/16 TO 6 1/8, DIM "QQ" CHG'D FROM 7 1/16 TO 7 1/8, DIM "RR" CHG'D FROM 6 1/16 TO 6 1/8, DIM "SS" CHG'D FROM 7 1/16 TO 7 1/8, DIM "TT" CHG'D FROM 6 1/16 TO 6 1/8, DIM "UU" CHG'D FROM 7 1/16 TO 7 1/8, DIM "VV" CHG'D FROM 6 1/16 TO 6 1/8, DIM "WW" CHG'D FROM 7 1/16 TO 7 1/8, DIM "XX" CHG'D FROM 6 1/16 TO 6 1/8, DIM "YY" CHG'D FROM 7 1/16 TO 7 1/8, DIM "ZZ" CHG'D FROM 6 1/16 TO 6 1/8, DIM "AAA" CHG'D FROM 7 1/16 TO 7 1/8, DIM "BBB" CHG'D FROM 6 1/16 TO 6 1/8, DIM "CCC" CHG'D FROM 7 1/16 TO 7 1/8, DIM "DDD" CHG'D FROM 6 1/16 TO 6 1/8, DIM "EEE" CHG'D FROM 7 1/16 TO 7 1/8, DIM "FFF" CHG'D FROM 6 1/16 TO 6 1/8, DIM "GGG" CHG'D FROM 7 1/16 TO 7 1/8, DIM "HHH" CHG'D FROM 6 1/16 TO 6 1/8, DIM "III" CHG'D FROM 7 1/16 TO 7 1/8, DIM "JJJ" CHG'D FROM 6 1/16 TO 6 1/8, DIM "KKK" CHG'D FROM 7 1/16 TO 7 1/8, DIM "LLL" CHG'D FROM 6 1/16 TO 6 1/8, DIM "MMM" CHG'D FROM 7 1/16 TO 7 1/8, DIM "NNN" CHG'D FROM 6 1/16 TO 6 1/8, DIM "OOO" CHG'D FROM 7 1/16 TO 7 1/8, DIM "PPP" CHG'D FROM 6 1/16 TO 6 1/8, DIM "QQQ" CHG'D FROM 7 1/16 TO 7 1/8, DIM "RRR" CHG'D FROM 6 1/16 TO 6 1/8, DIM "SSS" CHG'D FROM 7 1/16 TO 7 1/8, DIM "TTT" CHG'D FROM 6 1/16 TO 6 1/8, DIM "UUU" CHG'D FROM 7 1/16 TO 7 1/8, DIM "VVV" CHG'D FROM 6 1/16 TO 6 1/8, DIM "WWW" CHG'D FROM 7 1/16 TO 7 1/8, DIM "XXX" CHG'D FROM 6 1/16 TO 6 1/8, DIM "YYY" CHG'D FROM 7 1/16 TO 7 1/8, DIM "ZZZ" CHG'D FROM 6 1/16 TO 6 1/8, DIM "AAAA" CHG'D FROM 7 1/16 TO 7 1/8, DIM "BBBB" CHG'D FROM 6 1/16 TO 6 1/8, DIM "CCCC" CHG'D FROM 7 1/16 TO 7 1/8, DIM "DDDD" CHG'D FROM 6 1/16 TO 6 1/8, DIM "EEEE" CHG'D FROM 7 1/16 TO 7 1/8, DIM "FFFF" CHG'D FROM 6 1/16 TO 6 1/8, DIM "GGGG" CHG'D FROM 7 1/16 TO 7 1/8, DIM "HHHH" CHG'D FROM 6 1/16 TO 6 1/8, DIM "IIII" CHG'D FROM 7 1/16 TO 7 1/8, DIM "JJJJ" CHG'D FROM 6 1/16 TO 6 1/8, DIM "KKKK" CHG'D FROM 7 1/16 TO 7 1/8, DIM "LLLL" CHG'D FROM 6 1/16 TO 6 1/8, DIM "MMMM" CHG'D FROM 7 1/16 TO 7 1/8, DIM "NNNN" CHG'D FROM 6 1/16 TO 6 1/8, DIM "OOOO" CHG'D FROM 7 1/16 TO 7 1/8, DIM "PPPP" CHG'D FROM 6 1/16 TO 6 1/8, DIM "QQQQ" CHG'D FROM 7 1/16 TO 7 1/8, DIM "RRRR" CHG'D FROM 6 1/16 TO 6 1/8, DIM "SSSS" CHG'D FROM 7 1/16 TO 7 1/8, DIM "TTTT" CHG'D FROM 6 1/16 TO 6 1/8, DIM "UUUU" CHG'D FROM 7 1/16 TO 7 1/8, DIM "VVVV" CHG'D FROM 6 1/16 TO 6 1/8, DIM "WWWW" CHG'D FROM 7 1/16 TO 7 1/8, DIM "XXXX" CHG'D FROM 6 1/16 TO 6 1/8, DIM "YYYY" CHG'D FROM 7 1/16 TO 7 1/8, DIM "ZZZZ" CHG'D FROM 6 1/16 TO 6 1/8	12-15-42	
EO A6410289A	-2 ASSY FOR SHIP #21 & SUBS, MAG WT CHG	1-15-43	
EO A8948A7A	-17 (REF -19 & -21) WAS -6 (REF -10 & -12), -18 (REF -20 & -22) WAS -8 (REF -10 & -12), -19 (REF -17 & -21) WAS -9 (REF -11 & -13), -20 (REF -18 & -22) WAS -10 (REF -12 & -14), -21 (REF -17 & -21) WAS -11 (REF -13 & -15), -22 (REF -18 & -22) WAS -12 (REF -14 & -16), -23 (REF -19 & -21) WAS -13 (REF -15 & -17), -24 (REF -19 & -21) WAS -14 (REF -16 & -18), -25 (REF -17 & -21) WAS -15 (REF -17 & -19), -26 (REF -18 & -22) WAS -16 (REF -18 & -20), -27 (REF -19 & -21) WAS -17 (REF -19 & -21), -28 (REF -18 & -22) WAS -18 (REF -20 & -22), -29 (REF -19 & -21) WAS -19 (REF -17 & -21), -30 (REF -18 & -22) WAS -20 (REF -20 & -22), -31 (REF -19 & -21) WAS -21 (REF -17 & -21), -32 (REF -18 & -22) WAS -22 (REF -20 & -22), -33 (REF -19 & -21) WAS -23 (REF -17 & -21),

CONT	ALTERATION	DATE	BY
	# ATTACH ——— (RELAY) WAS ATTACH ——— (CAULIFLOWER) CHG NO. 8 & 11-43		

DETAIL SHOWING INSTALLATION OF -24 (FOR PBY-3 & 4 ONLY)

DETAIL -24 (PBY-3 & 4 ONLY) USE 28B5132
SPEC 47A10-COND. A FOR FUTURE AND SPARES
H.T. COND. T FINISH-ZP-2AL

DETAIL -7 -8 OPPOSITE
.050 AL ALLOY SHEET 24S-T
SPEC 47A10 COND T

DETAIL -11, -12 OPPOSITE (8G)
MAKE FROM 22FZ99-7
1 OF EACH REQ'D PER SHIP

DETAIL -9 & -19 (8E)
MAKE FROM BUILD ANGLE
ALCOA DIE # K-1208
SPEC 46A8 COND A H.T. 9R58 COND T

PART NO.	ASS'Y	A	B
-9	-10	1/2	9/16
-19	-25	9/16	1/2

COVER ASSY SIDE VIEW

COVER ASSY PLAN VIEW

SECTION A-A (E8)

SECTION D-D (E1)

SECTION C-C (F5) ROTATED 90°

DETAIL -5 (D5) -6 OPPOSITE
.040 AL ALLOY SH'T 24S0
SPEC 47A10 COND A, HT 9R58 COND T

DETAIL -2 (8G)
.040 AL ALLOY SH'T 24S0
SPEC 47A10 COND A
H.T. 9R58 COND T

DETAIL -3 LH. (D9) -4 OPPOSITE
.040 AL ALLOY SHEET 24ST
SPEC 47A10 (COND T)

INCORPORATES
PBY-3 BU.AERO. CHG # 59
PBY-4 BU.AERO CHG # 20

NOTES:
1. SEAL ALL JOINTS WITH FABRIC & MARINE GLUE BEFORE RIVETING TO INSURE WATERTIGHTNESS.
2. MAT'L. FOR -14 & 20 MAY BE PURCHASED FROM KIRKHILL RUBBER CO, LOS ANGELES, CALIF.

THIS COVER MUST FIT OVER ITEM 5 IN CONJUNCTION WITH 28B5085

ENG. FILE

H 518

COPY NO. 2

H 519

ENG. FILE

28B233

SUPP. U.S. GOVERNMENT CLASSIFICATION — RESTRICTION

TRACED UP TO DATE 8-12-43 DAB
ADDED PART 4 REQMTS 3 JAN 44
ADDED 1-14-44 REQMTS 8-10 JAN 44
ADDED 28" SIZE R.S. REQMTS 3-8 FEB 44
ADDED 0" MEASURES 10-4-43 E
28A1063-10 28A1063-7E-8 10-14-43
CHGD AN23-22 TO AN23-21
CONNECTING 4 28A1068 E
28A1063 L/H & R/H REQUIRED
AN 23-22 & SHOW AN23-21
CH. REQ'D, FOR A PROD. 12-14-43
DIM 54 IN 53-3/4 NO 0.1 CHG 4-1847 4-16-44
IN DETAIL A (B/M Q612-6.
-6 (1) WAS Q612-E-6 (1).
NO WT. CHG 28 A 1063 AD.

54 (P.) AS TO MATCH "28F1050 IN CEN. SECTION

13

3½ (M) (28A1063-7-5 REF)

10 10½ (28A1063-7-8) (REF) (M)

#28A1068 - SAFETY CABLE

AN3-15
AN310-3
AN 380-22-2
DRILL #10 (.193)

Q610-6-29
AN 23-21
AN 320-3
AN 380-22

28A1056

28A1058

28A1060 (REF)

6¾ (REF)

64½ (REF) (M) (28A1063-7-8) (REF)

28A1061
28A1061-30 (M)

28A1059

Q610-6-28 3 (M)
AN 23-21
AN 320-3
AN 380-2-2

57⅞ (REF)

50⅛ (REF) (28A1063-7-8) (REF) (M)

28A1060
28A1060-30 (M)

28A1055
INSULATE WITH
PLASTIC & ARMOR CLOTH

3½ (REF)

22 (REF)

Q612-6-24
AN 24-20
AN 320-4
AN 380 2-2

(B) PLOTTED 3 I.C. TABULATION

SEE DETAIL A

61½

AN 6V2-20A-7
Q610-A-6
AN 960-10

(Q) Q612-A-6
AN 23-16
AN 320-3
AN 960-10

(2) MADE FROM ⅜ O.D.A. 049 CHROME-MOLY TUBING CUT TO ⅜ LENGTH CRO. AVATE

AN 23-30
Q610-A-16
AN 320-3

DETAIL A

AN 6F5-8-6 (M) AC 365-628

PART 4 & PART 2 ONLY
SEE MEMO CCE FOR PART 3 DETAILS

DRILL ⅜ DIA ACCESS HOLES IN OUTER FACE ONLY OF #28A1062-10 (REF)

28A1055 (REF)

Q610-5-23 SPACER (10 REQ)

AN515-8-20 (10 REQ) AC 365-832 (REF)

28A1062-10 (REF)

VIEW C-C
SCALE 12"=1'-0
HOLES ONLY

R33V NO	PART B
(Q) 28A1063 (LH)	#28A1062
28A1063-4 (RH)	#28A1062-1
28A1063-5 (LH)	#28A1062-8
28A1063-6 (RH)	#28A1062-9
28A1063-5 (LH)	#28A1062-8
28A1063-6 (RH)	#28A1062-9
28A1063-7 (LH)	#28A1062-8
(M) 28A1063-8 (RH)	#28A1062-9

H 520

| | | |

A REMOVED PBY-5 REQ. & ADDED 60 DEE REQ'MTS #1 TO #52 INCL. TO PBY-5A CONT. 88970

28U5045-L ARMOR PLATE

AN 4-10A BOLT (3) WASHER AC 370-428 NUT (3) SPREAD RIVET

AN 6-N 25 CUSHION

AN 441-6-10 RIVET 2 PLACES EA SIDE

28A5.21 L/R ANGLE SUPPORT

SUB ASSEMBLY

AN 4-6A BOLT AC 370-428 NUT

28A5616-6 SUPPORT

AN 4-6A BOLT AN 960-416 WASHER 28A5119-7 BAR

28A5614-2 STRAP ASSEMBLY

AN 501-416-8 SCREW AN 316-4R NUT

AN 4-14A BOLT (2) AC 370-428 NUT (2) AN 912-A-25 SPACER (2)

AN 960-416L WASHER ONLY IF NECESSARY GAP MUST BUTT AGAINST SPACER

SECTION A-A
SCALE 1/2

28U5065-2 REF

28A5.21 L REF

DRILL F (257) IN 28A5.21 L/R

FINISH CODE
P PRIMER
AP ALUM ALLOY PRIMER
C CADMIUM PLATE

AN 441-6-10
AN 316-4R
AN 501-416-8

28A5616-6
28A5614-2
28A5121L

-6.5-8 ASSEMBLY

AT 016-N17-25
AT 012-N17-062
28B28-25
AC 370-428
AN 960-416L
AN 4-14A
AN 4-6A
AN 4-10A
AN 960-416

28A5614-R
28A5119-7
28A5.20B
28A5120L

-6U5045-2 SUB ASSEMBLY

PBY5A 28U5500

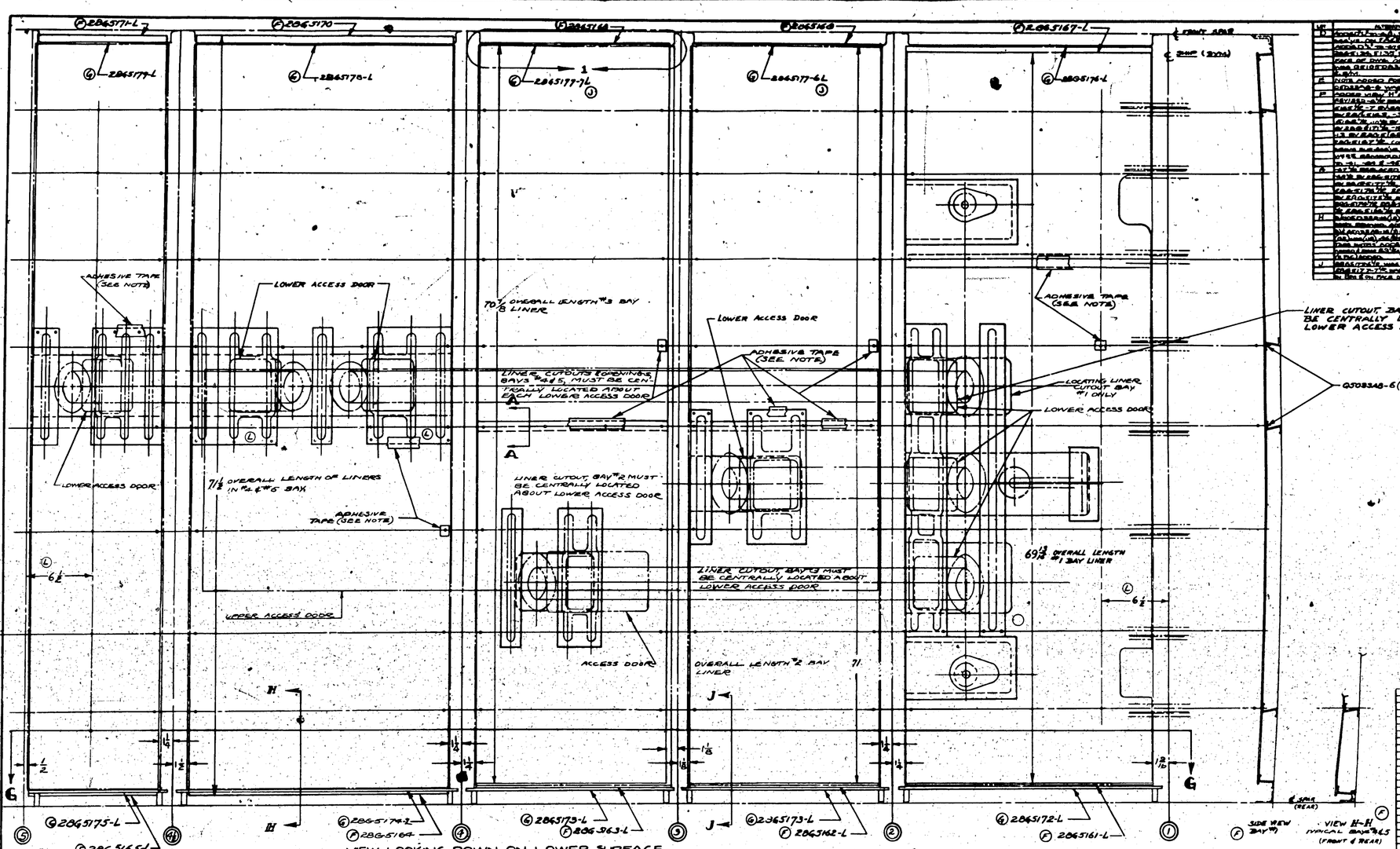
12'-10"

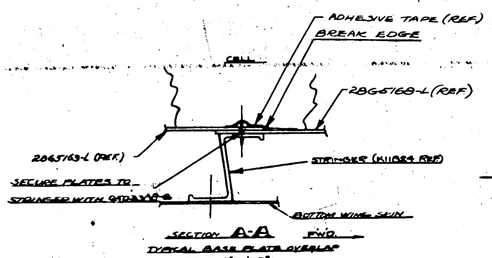
NONE -6 TOUCH UP AP

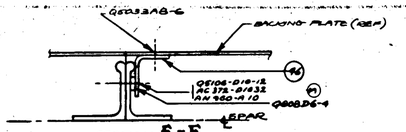
ENG. FILE

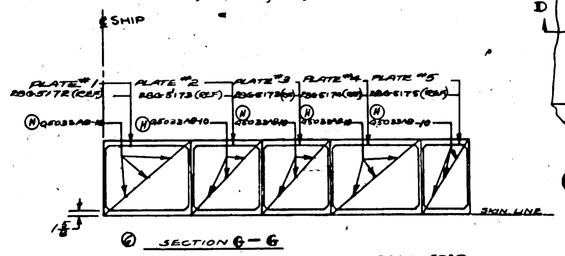
INSTALLATION-TUNNEL GUN ARMOR PLATE-REAR G 28A5617

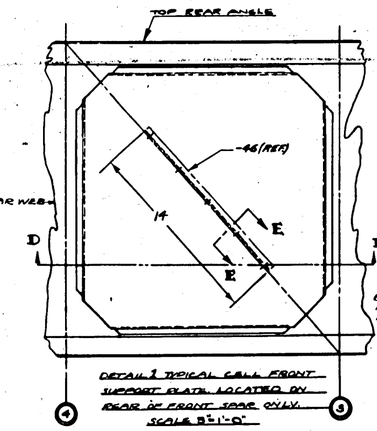
H 521

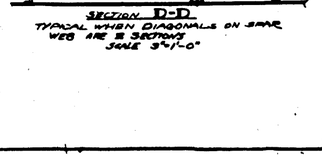


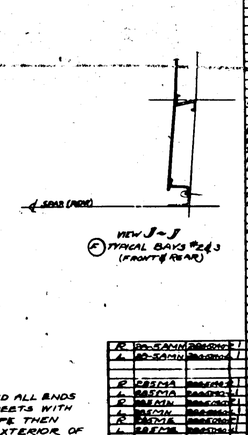












NOTES
1. COVER ALL F.K.'S AND ALL ENDS OF OVERLAPPING SHEETS WITH 2" WIDE ADHESIVE TAPE THEN APPLY SHELLAC TO EXTERIOR OF TAPE. ALL FREE EDGES OF SUPPORT PLATES & LINERS MUST BE COVERED WITH ADHESIVE TAPE TO PREVENT CHAFING.

NOTE: F, G & H CHANGES RUSH RELEASED 10-24-41

H-522

2B65042